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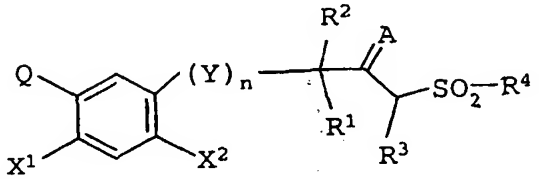
(54) Title: HETEROCYCLYL SUBSTITUTED PHENOXYALKYL-, PHENYLTHIOALKYL-, PHENYLAMINOALKYL- AND PHENYLALKYL-SULFAMOYLCARBOXAMIDES



(I)

(57) Abstract: The present invention describes compounds, compositions, and methods for treating target plants with an herbicidally effective amount of a compound of formula (I) or a composition that includes compounds of formula (I), wherein A, Q, R^1, R^2, R^3, R^4, X^1, X^2, Y, and n are as defined herein.

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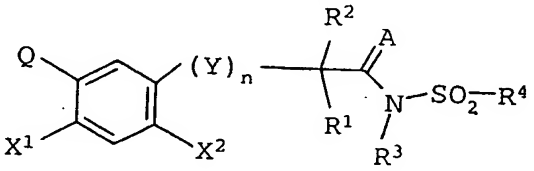
HETEROCYCLYL SUBSTITUTED PHENOXYALKYL-, PHENYLTHIOALKYL-, PHENYLAMINOALKYL- AND PHENYLALKYL-SULFAMOYLCARBOXAMIDES

The present invention relates to new herbicidal compounds, compositions, and their methods of use; in particular, the present invention relates to cyclic imide phenoxyalkyl-, phenylthioalkyl-, and phenalkylsulfamoylcaboxamides as herbicidal agents.

Weeds persist in many crops, thereby lowering crop quantity and quality. Applying herbicides containing active ingredients such as heterocyclyl substituted phenyl compounds is effective in the control of undesired vegetation especially weeds. As a rule, these compounds have a substituent, for example a halogen atom, on the phenyl ring in the 2- and/or the 4-position relative to the heterocyclic radical, the letter comprising at least one nitrogen atom as a ring member. A side chain can be present in the 5-position of the phenyl ring. Inter alia, compounds are proposed which have an side chain derived from aliphatic acid derivatives. Several references, such as U.S. Patent No. 6,057,269 to Klintz et al. and U.S. Patent No. 4,859,229 to Wenger et al., describe various heterocyclyl substituted phenyl compounds, compositions, and the use of those compounds as pesticidal agents.

The compounds of the prior art are frequently not satisfactory with respect to their herbicidal activity and their selectivity. It is therefore an object of the present invention to make available compounds having high herbicidal activity. The compounds should preferably act selectively against harmful weeds and not affect culture plants.

We have surprisingly found that this object is achieved by heterocyclyl substituted phenyl compounds of the formula I as described below. Thus, the present invention relates to compounds of the formula I



(I)

wherein:

A is O or S;

X^1 and X^2 are each independently H or halogen;

n is 0 or 1

Y is O, NR, $S(O)_m$ or a group CHR';

m is 0, 1, or 2;

R is H, C_1-C_4 alkyl, C_1-C_4 alkoxyalkyl, or optionally substituted benzyl;

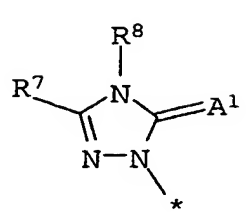
R' is hydrogen or R' and R^2 form a bond;

R^1 and R^2 are each independently H, C_1-C_6 alkyl, or halogen, or R^1 and R^2 taken together are $=CH_2$, or form a cyclopropyl ring with the carbon to which they are attached;

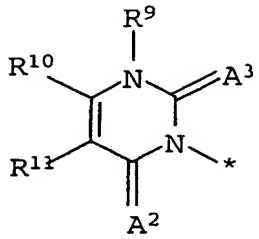
R^3 is H, CN, C_1-C_6 alkyl, C_1-C_6 alkoxyalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_3-C_6 alkynyl or optionally substituted benzyl;

R^4 is NR^5R^6, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_3-C_6 alkynyl, optionally substituted phenyl, optionally substituted 4 to 7 membered heterocyclyl or optionally substituted benzyl;

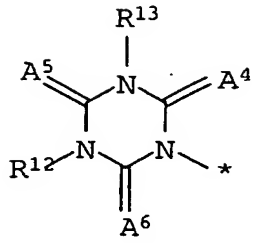
Q is selected from nitrogen containing heterocycles of the formulae Q1 to Q8



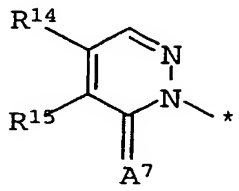
Q1



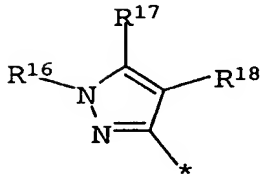
Q2



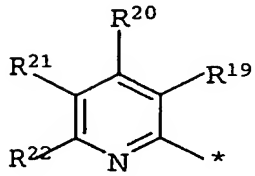
Q3



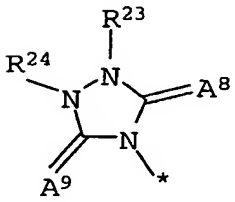
Q4



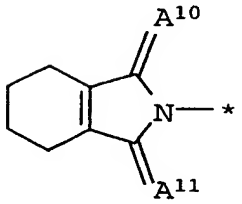
Q5



Q6



Q7



Q8

wherein the Q group is attached to the phenyl ring of formula I at *;

R^5 and R^6 are each independently H, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_3-C_{10} alkynyl, C_3-C_8 cyloalkyl, phenyl, benzyl or C_5-C_8 cycloalkenyl, where each of the aforementioned seven groups can be substituted with any combination of 1, 2, 3, 4 or 5 halogen atoms, 1, 2 or 3 C_1-C_6 alkoxy groups, 1 or 2 C_1-C_6 haloalkoxy groups, 1 or 2 cyano groups, 1 or 2 C_3-C_7 cycloalkyl groups, 1 or 2 two $C(O)R^{25}$ groups, 1 or 2 $C(O)OR^{26}$ groups, 1 or 2 $C(O)NR^{28}R^{29}$ groups, 1, 2 or 3 OR^{30} groups, 1, 2 or 3 SR^{31} groups, one optionally substituted four to ten membered monocyclic or fused bicyclic heterocycle, one or two optionally substituted phenyl groups or one or two optionally substituted benzyl groups, or

R^5 may be also a group $CONR^{5a}R^{6a}$ or $SO_2NR^{5a}R^{6a}$ wherein R^{5a} and R^{6a} are each independently H, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_3-C_{10} alkynyl, C_3-C_8 cyloalkyl, phenyl, benzyl or C_5-C_8 cycloalkenyl, where each of the aforementioned seven groups can be substituted with any combination of 1, 2, 3, 4 or 5 halogen atoms, 1, 2 or 3 C_1-C_6 alkoxy groups, 1 or 2 C_1-C_6 haloalkoxy groups, 1 or 2 cyano groups, 1 or 2 C_3-C_7 cycloalkyl groups, 1 or 2 two

$C(O)R^{25}$ groups, 1 or 2 $C(O)OR^{26}$ groups, 1 or 2 $C(O)NR^{28}R^{29}$ groups, 1, 2 or 3 OR^{30} groups, 1, 2 or 3 SR^{31} groups, one optionally substituted four to ten membered monocyclic or fused bicyclic heterocycle, one or two optionally substituted phenyl groups or one or two optionally substituted benzyl groups, or

R^5 and R^6 together with the atom to which they are attached form a three to seven membered heterocycle;

A^1, A^2, A^3, A^4, A^5, A^6, A^7, A^8, A^9, A^{10} and A^{11} are each independently O or S;

R^7, R^8, R^9, R^{12}, R^{13}, R^{16}, R^{17}, R^{23} and R^{24} are each independently H, CN, NH_2, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_1-C_6 haloalkoxy, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_3-C_6 alkynyl, benzyl, OR^{32}, C_1-C_3 cyanoalkyl, or
R^7 and R^8 or R^{23} and R^{24} may be taken together with the atoms to which they are attached to represent a four- to seven membered ring, optionally interrupted by oxygen, sulfur or nitrogen and optionally substituted with one or more halogen or C_1-C_4 alkyl groups;

R^{10}, R^{11}, R^{14}, R^{15}, R^{19}, R^{20}, R^{21} and R^{22} are each independently H, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_3-C_6 alkynyl, OR^{33}, $S(O)_mR^{34}$, OSO_2R^{35}, $NR^{36}R^{37}$ or

R^{10} and R^{11} may be taken together with the atoms to which they are attached to represent a four to seven membered ring optionally substituted with one or more halogen or C_1-C_4 alkyl groups,

one of the radicals R^{19}, R^{20}, R^{21} or R^{22} may also be an optionally substituted phenyl group;

R^{18} is H, halogen, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_3-C_6 alkynyl, OR^{38} or SR^{39} or

R^{17} and R^{18} may be taken together with the atoms to which they are attached to represent a four to seven membered ring optionally substituted with one or more halogen or C_1-C_4 alkyl groups;

R^{25}, R^{26}, R^{28}, R^{29}, R^{30}, R^{31}, R^{32}, R^{33}, R^{34}, R^{35}, R^{36}, R^{37}, R^{38} and R^{39} are each independently H, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_3-C_6 alkynyl, optionally substituted phenyl or optionally substituted benzyl;

or optical isomers, salts or esters thereof.

The invention relates also to agricultural compositions comprising at least one compound of the formula I or an agriculturally utilizable salt of I and at least one inert liquid and/or solid carrier and, if desired, at least one surface-active substance.

7. Moreover, the invention relates to the use of the compounds of formula I as herbicides and/or for the desiccation and/or defoliation of plants. The invention relates also to methods of controlling or inhibiting the growth of an undesired vegetation (weeds), which comprises allowing a herbicidally active amount of at least one compound of the formula I or of an agriculturally utilizable salt of I or a composition that includes compounds of formula I, to act on plants, their habitat or on seed. The invention relates also to a method for the desiccation and/or defoliation of plants, which comprises allowing an effective amount of at least one compound of the formula I having desiccant and/or defoliant activity or of an agriculturally utilizable salt of I, as claimed in any of claims 1 to 11, to act on plants.

The compounds of the formula I can have one or more chiral centers in the substituents and then exist either as enantiomer or diastereomer mixtures. The invention relates both to the pure enantiomers or diastereomers and to their mixtures.

Suitable agriculturally utilizable salts are especially the salts of those cations or the acid addition salts of those acids whose cations or anions respectively do not adversely affect the herbicidal action of the compounds I. Thus suitable cations are in particular the ions of the alkali metals, preferably sodium and potassium, the alkaline earth metals, preferably calcium, magnesium and barium, and the transition metals, preferably manganese, copper, zinc and iron, and also the ammonium ion, which if desired can carry one to four C_1-C_4 alkyl substituents and/or a phenyl or benzyl

substituent. Illustrative examples of amines suitable for forming ammonium cations are ammonia as well as primary, secondary and tertiary C_1 -C_{18} alkylamines, C_1 -C_4 hydroxyalkylamines and C_2 -C_4 alkoxyalkylamines typically methylamine, ethylamine, n-propylamine, isopropylamine, the four isomeric butylamines, n-amylamine, isoamylamine, hexylamine, heptylamine, octylamine, nonylamine, decylamine, pentadecylamine, hexadecylamine, heptadecylamine, octadecylamine, methyl ethylamine, methyl isopropylamine, methyl hexylamine, methyl nonylamine, methyl pentadecylamine, methyl octadecylamine, ethyl butylamine, ethyl heptylamine, ethyl octylamine, hexyl heptylamine, hexyl octylamine, dimethylamine, diethylamine, di-n-propylamine, diisopropylamine, di-n-butylamine, di-n-amylamine, diisoamylamine, dihexylamine, diheptylamine, dioctylamine, ethanolamine, n-propanolamine, isopropanolamine, N,N-diethanolamine, N-ethylpropanolamine, N-butylethanolamine, allylamine, n-but-2-enylamine, n-pent-2-enylamine, 2,3-dimethylbut-2-enylamine, dibut-2-enylamine, n-hex-2-enylamine, propylenediamine, trimethylamine, triethylamine, tri-n-propylamine, triisopropylamine, tri-n-butylamine, triisobutylamine, tri-sec-butylamine, tri-n-amylamine, methoxyethylamine and ethoxyethylamine; heterocyclic amines such as pyridine, quinoline, isoquinoline, morpholine, piperidine, pyrrolidine, indoline, quinuclidine and azepine; primary arylamines such as anilines, methoxyanilines, ethoxyanilines, o-, m- and p-toluidines, phenylenediamines, benzidines, naphthylamines and o-,m- and p-chloroanilines, in addition phosphonium ions, sulfonium ions, preferably tri(C1-C4-alkyl)sulfonium and sulfoxonium ions, preferably tri(C_1-C_4-alkyl)sulfoxonium.

Anions of utilizable acid addition salts are primarily chloride, bromide, fluoride, hydrogensulfate, sulfate, dihydrogenphosphate, hydrogenphosphate, phosphate, nitrate, hydrogencarbonate, carbonate, hexafluorosilicate, hexafluorophosphate, benzoate, and the anions of C_1-C_4-alkanoic acids, preferably formate, acetate, propionate and butyrate. They can be formed by reaction of I with an acid of the corresponding anion, preferably of hydrochloric acid, hydrobromic acid, sulfuric acid, phosphoric acid or nitric acid.

The organic moieties mentioned in the definition of the substituents R^1 - R^{39} or as radicals on phenyl, heterocycl or cycloalkyl rings - such as the meaning halogen - are collective terms for individual lists of the separate group members. All carbon chains, i.e. all alkyl, haloalkyl, cyanoalkyl, cycloalkyl, alkoxy, haloalkoxy, alkylthio,

alkylsulfinyl, alkylsulfonyl, haloalkylsulfonyl, alkenyl and alkynyl groups and corresponding group moieties in larger groups such as alkoxyalkyl, alkylthioalkyl, (di)alkylamino, (di)alkylaminocarbonyl, alkoxycarbonyl, alkoxycarbonylalkyl etc. can be straight-chain or branched, the prefix C_n-C_m in each case indicating the possible number of carbon atoms in the group. Halogenated substituents preferably carry one, two, three, four or five identical or different halogen atoms, preferably chlorine and/or fluorine atoms. The meaning halogen is in each case fluorine, chlorine, bromine or iodine, preferably fluorine or chlorine.

The meaning of optionally substituted phenyl or benzyl is in each case that the phenyl ring may carry one to five, preferably one or two substituents which are preferably selected from halogen, C_1-C_4 alkyl, CN, NH_2, NO_2, C_1-C_4 alkoxy, C_1-C_4 haloalkyl, C_1-C_4 haloalkoxy, C_1-C_4 alkoxycarbonyl, C_1-C_4 alkylcarbonyloxy, C_1-C_4 alkylamino, di-C_1-C_4-alkylamino, C_1-C_4 alkylaminocarbonyl and di-C_1-C_4-alkylaminocarbonyl.

C_1-C_4-alkyl: methyl, ethyl, n-propyl, $CH(CH_3)_2$, n-butyl, $CH(CH_3)$-C_2H_5, CH_2-$CH(CH_3)_2$ and $C(CH_3)_3$;

C_1-C_4-alkoxy: methoxy, ethoxy, n-propoxy, $OCH(CH_3)_2$, n-butoxy, $OCH(CH_3)$-C_2H_5, OCH_2-$CH(CH_3)_2$ and $OC(CH_3)_3$;

C_1-C_4-haloalkyl: a C_1-C_4-alkyl radical as mentioned above, which is partially or completely substituted, preferably by one to five halogen atoms, e.g. by fluorine, chlorine, bromine and/or iodine, i.e., for example, CH_2F, CHF_2, CF_3, CH_2Cl, dichloromethyl, trichloromethyl, chlorofluoromethyl, dichlorofluoromethyl, chlorodifluoromethyl, 2-fluoroethyl, 2-chloroethyl, 2-bromoethyl, 2-iodoethyl, 2,2-difluoroethyl, 2,2,2-trifluoroethyl, 2-chloro-2-fluoroethyl, 2-chloro-2,2-difluoroethyl, 2,2-dichloro-2-fluoroethyl, 2,2,2-trichloroethyl, C_2F_5, 2-fluoropropyl, 3-fluoropropyl, 2,2-difluoropropyl, 2,3-difluoropropyl, 2-chloropropyl, 3-chloropropyl, 2,3-dichloropropyl, 2-bromopropyl, 3-bromopropyl, 3,3,3-trifluoropropyl, 3,3,3-trichloropropyl, 2,2,3,3,3-pentafluoropropyl, heptafluoropropyl, 1-(fluoromethyl)-2-fluoroethyl, 1-(chloromethyl)-2-chloroethyl, 1-(bromomethyl)-2-bromoethyl, 4-fluorobutyl, 4-chlorobutyl, 4-bromobutyl or nonafluorobutyl, especially CH_2F, CHF_2, CF_3, CH_2Cl, dichloromethyl, trichloromethyl, chlorofluoromethyl, dichlorofluoromethyl, chlorodifluoromethyl, and 2,2,2-trifluoroethyl;

C_1-C_{10}-alkyl: an alkyl radical having from 1 to 10, preferably from 1 to 8, especially from 1 to 6 carbon atoms, such as C_1-C_4-alkyl as mentioned above, and also, for example, n-pentyl, 1-methylbutyl, 2-methylbutyl, 3-methylbutyl, 2,2-dimethylpropyl, 1-ethylpropyl, n-hexyl, 1,1-dimethylpropyl, 1,2-dimethylpropyl, 1-methylpentyl, 2-methylpentyl, 3-methylpentyl, 4-methylpentyl, 1,1-dimethylbutyl, 1,2-dimethylbutyl, 1,3-dimethylbutyl, 2,2-dimethylbutyl, 2,3-dimethylbutyl, 3,3-dimethylbutyl, 1-ethylbutyl, 2-ethylbutyl, 1,1,2-trimethylpropyl, 1,2,2-trimethylpropyl, 1-ethyl-1-methylpropyl or 1-ethyl-2-methylpropyl, preferably methyl, ethyl, n-propyl, 1-methylethyl, n-butyl, 1,1-dimethylethyl, n-pentyl or n-hexyl;

C_1-C_6-haloalkyl: a C_1-C_6-alkyl radical as mentioned above which is partially or fully substituted, preferably by one to five halogen atoms, e.g. by fluorine, chlorine, bromine and/or iodine, i.e. for example one of the radicals mentioned under C_1-C_4-haloalkyl, and also 5-fluoro-1-pentyl, 5-chloro-1-pentyl, 5-bromo-1-pentyl, 5-iodo-1-pentyl, 5,5,5-trichloro-1-pentyl, undecafluoro- pentyl, 6-fluoro-1-hexyl, 6-chloro-1-hexyl, 6-bromo-1-hexyl, 6-iodo-1-hexyl, 6,6,6-trichloro-1-hexyl or dodecafluorohexyl;

C_1-C_4-haloalkoxy: a C_1-C_4-alkoxy radical as mentioned above, which is partially or completely substituted, preferably by one to five halogen atoms, e.g. by fluorine, chlorine, bromine and/or iodine, i.e., for example OCH_2F, $OCHF_2$, OCF_3, OCH_2Cl, $OCH(Cl)_2$, $OCCl_3$, chlorofluoromethoxy, dichlorofluoromethoxy, chlorodifluoromethoxy, 2-fluoroethoxy, 2-chloroethoxy, 2-bromoethoxy, 2-iodoethoxy, 2,2-difluoroethoxy, 2,2,2-trifluoroethoxy, 2-chloro-2-fluoroethoxy, 2-chloro-2,2-difluoroethoxy, 2,2-dichloro-2-fluoroethoxy, 2,2,2-trichloroethoxy, OC_2F_5, 2-fluoropropoxy, 3-fluoropropoxy, 2,2-difluoropropoxy, 2,3-difluoropropoxy, 2-chloropropoxy, 3-chloropropoxy, 2,3-dichloropropoxy, 2-bromopropoxy, 3-bromopropoxy, 3,3,3-trifluoropropoxy, 3,3,3-trichloropropoxy, OCH_2-C_2F_5, OCF_2-C_2F_5, 1-(CH_2F)-2-fluoroethoxy, 1-(CH_2Cl)-2-chloroethoxy, 1-(CH_2Br)-2-bromoethoxy, 4-fluorobutoxy, 4-chlorobutoxy, 4-bromobutoxy or nonafluorobutoxy, preferably $OCHF_2$, OCF_3, dichlorofluoromethoxy, chlorodifluoromethoxy or 2,2,2-trifluoroethoxy;

C_1-C_6-haloaloxy: a C_1-C_6-alkoxy radical as mentioned above which is partially or fully substituted, preferably by one to five halogen atoms, e.g. by fluorine, chlorine, bromine and/or iodine, i.e. for example one of the radicals mentioned under C_1-C_4-haloalkoxy, and also 5-fluoro-1-pentyloxy, 5-chloro-1-pentyloxy, 5-bromo-1-

pentyloxy, 5-iodo-1-pentyloxy, 5,5,5-trichloro-1-pentyloxy, undecafluoro- pentyloxy, 6-fluoro-1-hexyloxy, 6-chloro-1-hexyloxy, 6-bromo-1-hexyloxy, 6-iodo-1-hexyloxy, 6,6,6-trichloro-1-hexyloxy or dodecafluorohexyloxy;

cyano-C_1-C_4-alkyl: e.g. cyanomethyl, 1-cyanoeth-1-yl, 2-cyanoeth-1-yl, 1-cyanoprop-1-yl, 2-cyanoprop-1-yl, 3-cyanoprop-1-yl, 1-cyanoprop-2-yl, 2-cyanoprop-2-yl, 1-cyanobut-1-yl, 2-cyanobut-1-yl, 3-cyanobut-1-yl, 4-cyanobut-1-yl, 1-cyanobut-2-yl, 2-cyanobut-2-yl, 1-cyanobut-3-yl, 2-cyanobut-3-yl, 1-cyano-2-methylprop-3-yl, 2-cyano-2-methylprop-3-yl, 3-cyano-2-methylprop-3-yl or 2-cyanomethylprop-2-yl, in particular cyanomethyl or 2-cyanoethyl;

C_1-C_4-alkoxy-C_1-C_4-alkyl: C_1-C_4-alkyl which is substituted with one C_1-C_4-alkoxy group, e.g. CH_2-OCH_3, CH_2-OC_2H_5, n-propoxymethyl, CH_2-$OCH(CH_3)_2$, n-butoxymethyl, (1-methylpropoxy)methyl, (2-methylpropoxy)methyl, CH_2-$OC(CH_3)_3$, 2-(methoxy)ethyl, 2-(ethoxy)ethyl, 2-(n-propoxy)ethyl, 2-(1-methylethoxy)ethyl, 2-(n-butoxy)ethyl, 2-(1-methylpropoxy)ethyl, 2-(2-methylpropoxy)ethyl, 2-(1,1-dimethylethoxy)ethyl, 2-(methoxy)propyl, 2-(ethoxy)propyl, 2-(n-propoxy)propyl, 2-(1-methylethoxy)propyl, 2-(n-butoxy)propyl, 2-(1-methylpropoxy)propyl, 2-(2-methylpropoxy)propyl, 2-(1,1-dimethylethoxy)propyl, 3-(methoxy)propyl, 3-(ethoxy)propyl, 3-(n-propoxy)propyl, 3-(1-methylethoxy)propyl, 3-(n-butoxy)propyl, 3-(1-methylpropoxy)propyl, 3-(2-methylpropoxy)propyl, 3-(1,1-dimethylethoxy)propyl, 2-(methoxy)butyl, 2-(ethoxy)butyl, 2-(n-propoxy)butyl, 2-(1-methylethoxy)butyl, 2-(n-butoxy)butyl, 2-(1-methylpropoxy)butyl, 2-(2-methylpropoxy)butyl, 2-(1,1-dimethylethoxy)butyl, 3-(methoxy)butyl, 3-(ethoxy)butyl, 3-(n-propoxy)butyl, 3-(1-methylethoxy)butyl, 3-(n-butoxy)butyl, 3-(1-methylpropoxy)butyl, 3-(2-methylpropoxy)butyl, 3-(1,1-dimethylethoxy)butyl, 4-(methoxy)butyl, 4-(ethoxy)butyl, 4-(n-propoxy)butyl, 4-(1-methylethoxy)butyl, 4-(n-butoxy)butyl, 4-(1-methylpropoxy)butyl, 4-(2-methylpropoxy)butyl or 4-(1,1-dimethylethoxy)butyl, preferably CH_2-OCH_3, CH_2-OC_2H_5, 2-(methoxy)ethyl, 2-(ethoxy)ethyl;

C_1-C_4-alkylthio-C_1-C_4-alkyl: C_1-C_4-alkyl which is substituted with one C_1-C_4-alkylthio group, i.e. for example CH_2-SCH_3, CH_2-SC_2H_5, n-propylthiomethyl, CH_2-$SCH(CH_3)_2$, n-butylthiomethyl, (1-methylpropylthio)methyl, (2-methylpropylthio)methyl, CH_2-$SC(CH_3)_3$, 2-(methylthio)ethyl, 2-(ethylthio)ethyl, 2-(n-propylthio)ethyl, 2-(1-methylethylthio)ethyl, 2-(n-butylthio)ethyl, 2-(1-

methylpropylthio)ethyl, 2-(2-methylpropylthio)ethyl, 2-(1,1-dimethylethylthio)ethyl, 2-(methylthio)propyl, 2-(ethylthio)propyl, 2-(n-propylthio)propyl, 2-(1-methylethylthio)propyl, 2-(n-butylthio)propyl, 2-(1-methylpropylthio)propyl, 2-(2-methylpropylthio)propyl, 2-(1,1-dimethylethylthio)propyl, 3-(methylthio)propyl, 3-(ethylthio)propyl, 3-(n-propylthio)propyl, 3-(1-methylethylthio)propyl, 3-(n-butylthio)propyl, 3-(1-methylpropylthio)propyl, 3-(2-methylpropylthio)propyl, 3-(1,1-dimethylethylthio)propyl, 2-(methylthio)butyl, 2-(ethylthio)butyl, 2-(n-propylthio)butyl, 2-(1-methylethylthio)butyl, 2-(n-butylthio)butyl, 2-(1-methylpropylthio)butyl, 2-(2-methylpropylthio)butyl, 2-(1,1-dimethylethylthio)butyl, 3-(methylthio)butyl,
3-(ethylthio)butyl, 3-(n-propylthio)butyl, 3-(1-methylethylthio)butyl, 3-(n-butylthio)butyl, 3-(1-methylpropylthio)butyl, 3-(2-methylpropylthio)butyl, 3-(1,1-dimethylethylthio)butyl, 4-(methylthio)butyl, 4-(ethylthio)butyl, 4-(n-propylthio)butyl, 4-(1-methylethylthio)butyl, 4-(n-butylthio)butyl, 4-(1-methylpropylthio)butyl, 4-(2-methylpropylthio)butyl or 4-(1,1-dimethylethylthio)butyl, preferably CH_2-SCH_3, CH_2-SC_2H_5, 2-(SCH_3)ethyl or
2-(SC_2H_5)ethyl;

C_1-C_4-haloalkoxy-C_1-C_4-alkyl: C_1-C_4-alkyl substituted by one C_1-C_4-haloalkoxy group, for example, 2-($OCHF_2$)ethyl, 2-(OCF_3)ethyl or 2-(OC_2F_5)ethyl;

C_2-C_{10}-alkenyl: alkenyl, having from 2 to 10, preferably from 2 to 6 and especially from 3 to 4 carbon atoms, e.g. ethenyl, prop-1-en-1-yl, allyl, 1-methylethenyl, 1-buten-1-yl, 1-buten-2-yl, 1-buten-3-yl, 2-buten-1-yl, 1-methylprop-1-en-1-yl, 2-methylprop-1-en-1-yl, 1-methyl-prop-2-en-1-yl, 2-methyl-prop-2-en-1-yl, n-penten-1-yl, n-penten-2-yl, n-penten-3-yl, n-penten-4-yl, 1-methyl-but-1-en-1-yl, 2-methylbut-1-en-1-yl, 3-methylbut-1-en-1-yl, 1-methylbut-2-en-1-yl, 2-methylbut-2-en-1-yl, 3-methylbut-2-en-1-yl, 1-methylbut-3-en-1-yl, 2-methylbut-3-en-1-yl, 3-methylbut-3-en-1-yl, 1,1-dimethylprop-2-en-1-yl, 1,2-dimethylprop-1-en-1-yl, 1,2-dimethylprop-2-en-1-yl, 1-ethylprop-1-en-2-yl, 1-ethylprop-2-en-1-yl, n-hex-1-en-1-yl, n-hex-2-en-1-yl, n-hex-3-en-1-yl, n-hex-4-en-1-yl, n-hex-5-en-1-yl, 1-methylpent-1-en-1-yl, 2-methylpent-1-en-1-yl, 3-methylpent-1-en-1-yl, 4-methylpent-1-en-1-yl, 1-methylpent-2-en-1-yl, 2-methylpent-2-en-1-yl, 3-methyl-pent-2-en-1-yl, 4-methylpent-2-en-1-yl, 1-methylpent-3-en-1-yl, 2-methylpent-3-en-1-yl, 3-methylpent-3-en-1-yl, 4-methylpent-3-en-1-yl, 1-methylpent-4-en-1-yl, 2-methyl-pent-4-en-1-yl, 3-methylpent-

4-en-1-yl, 4-methylpent-4-en-1-yl, 1,1-dimethylbut-2-en-1-yl, 1,1-dimethylbut-3-en-1-yl, 1,2-dimethylbut-1-en-1-yl, 1,2-dimethylbut-2-en-1-yl, 1,2-dimethylbut-3-en-1-yl, 1,3-dimethylbut-1-en-1-yl, 1,3-dimethylbut-2-en-1-yl, 1,3-dimethylbut-3-en-1-yl, 2,2-dimethylbut-3-en-1-yl, 2,3-dimethylbut-1-en-1-yl, 2,3-dimethylbut-2-en-1-yl, 2,3-dimethylbut-3-en-1-yl, 3,3-dimethylbut-1-en-1-yl, 3,3-dimethylbut-2-en-1-yl, 1-ethylbut-1-en-1-yl, 1-ethylbut-2-en-1-yl, 1-ethyl-but-3-en-1-yl, 2-ethylbut-1-en-1-yl, 2-ethylbut-2-en-1-yl, 2-ethylbut-3-en-1-yl, 1,1,2-trimethylprop-2-en-1-yl, 1-ethyl-1-methylprop-2-en-1-yl, 1-ethyl-2-methylprop-1-en-1-yl or 1-ethyl-2-methylprop-2-en-1-yl;

C_2-C_6-haloalkenyl: C_2-C_6-alkenyl as mentioned above which is partially or fully substituted by fluorine, chlorine, bromine and/or iodine, i.e. for example 2-chloroethenyl, 2-chloroallyl, 3-chloroallyl, 2,3-dichloroallyl, 3,3-dichloroallyl, 2,3,3-trichloroallyl, 2,3-dichlorobut-2-enyl, 2-bromoallyl, 3-bromoallyl, 2,3-dibromoallyl, 3,3-dibromoallyl, 2,3,3-tribromoallyl and 2,3-dibromobut-2-enyl;

C_2-C_{10}-alkynyl: alkynyl, having from 2 to 10, preferably from 2 to 6 and especially from 3 to 4 carbon atoms, e.g ethynyl, prop-1-yn-1-yl, prop-2-yn-1-yl, n-but-1-yn-1-yl, n-but-1-yn-3-yl, n-but-1-yn-4-yl, n-but-2-yn-1-yl, n-pent-1-yn-1-yl, n-pent-1-yn-3-yl, n-pent-1-yn-4-yl, n-pent-1-yn-5-yl, n-pent-2-yn-1-yl, n-pent-2-yn-4-yl, n-pent-2-yn-5-yl, 3-methylbut-1-yn-3-yl, 3-methylbut-1-yn-4-yl, n-hex-1-yn-1-yl, n-hex-1-yn-3-yl, n-hex-1-yn-4-yl, n-hex-1-yn-5-yl, n-hex-1-yn-6-yl, n-hex-2-yn-1-yl, n-hex-2-yn-4-yl, n-hex-2-yn-5-yl, n-hex-2-yn-6-yl, n-hex-3-yn-1-yl, n-hex-3-yn-2-yl, 3-methylpent-1-yn-1-yl, 3-methylpent-1-yn-3-yl, 3-methylpent-1-yn-4-yl, 3-methylpent-1-yn-5-yl, 4-methylpent-1-yn-1-yl, 4-methylpent-2-yn-4-yl or 4-methylpent-2-yn-5-yl, preferably prop-2-yn-1-yl;

C_3-C_8-cycloalkyl: cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl or cyclooctyl;

C_5-C_8-cycloalkenyl: cyclopenten-1-yl, cyclopenten-3-yl, cyclopent-1-en-4-yl, cyclohexen-1-yl, cyclohexen-3-yl, cyclohex-1-en-4-yl, cyclohepten-1-yl, cyclohepten-3-yl, cyclohept-1-en-4-yl, cyclohept-1-en-5-yl, cycloocten-1-yl, cycloocten-3-yl, cyclooct-1-en-4-yl, cyclooct-1-en-5-yl;

4- to 10-membered heterocyclyl is to be understood as meaning both saturated, partially or fully unsaturated and aromatic heterocycles, wich are formed by 4 to 10 ring atoms including one, two, three or for hetero atoms, where the hetero atoms are

selected from nitrogen, oxygen and sulfur. The ring members may form a mono- or bycyclic radical. Preferred heterocyclyl is 5- to 7-membered:

Examples of saturated heterocycles are: oxetan-2-yl, oxetan-3-yl, thietan-2-yl, thietan-3-yl, azetidin-1-yl, azetidin-2-yl, azetidin-3-yl, tetrahydrofuran-2-yl, tetrahydrofuran-3-yl, tetrahydrothiophen-2-yl, tetrahydrothiophen-3-yl, pyrrolidin-1-yl, pyrrolidin-2-yl, pyrrolidin-3-yl, 1,3-dioxolan-2-yl, 1,3-dioxolan-4-yl, 1,3-oxathiolan-2-yl, 1,3-oxathiolan-4-yl, 1,3-oxathiolan-5-yl, 1,3-oxazolidin-2-yl, 1,3-oxazolidin-3-yl, 1,3-oxazolidin-4-yl, 1,3-oxazolidin-5-yl, 1,2-oxazolidin-2-yl, 1,2-oxazolidin-3-yl, 1,2-oxazolidin-4-yl, 1,2-oxazolidin-5-yl, 1,3-dithiolan-2-yl, 1,3-dithiolan-4-yl, pyrrolidin-1-yl, pyrrolidin-2-yl, pyrrolidin-5-yl, tetrahydropyrazol-1-yl, tetrahydropyrazol-3-yl, tetrahydropyrazol-4-yl, tetrahydropyran-2-yl, tetrahydropyran-3-yl, tetrahydropyran-4-yl, tetrahydrothiopyran-2-yl, tetrahydrothiopyran-3-yl, tetrahydropyran-4-yl, piperidin-1-yl, piperidin-2-yl, piperidin-3-yl, piperidin-4-yl, 1,3-dioxan-2-yl, 1,3-dioxan-4-yl, 1,3-dioxan-5-yl, 1,4-dioxan-2-yl, 1,3-oxathian-2-yl, 1,3-oxathian-4-yl, 1,3-oxathian-5-yl, 1,3-oxathian-6-yl, 1,4-oxathian-2-yl, 1,4-oxathian-3-yl, morpholin-2-yl, morpholin-3-yl, morpholin-4-yl, hexahydropyridazin-1-yl, hexahydropyridazin-3-yl, hexahydropyridazin-4-yl, hexahydropyrimidin-1-yl, hexahydropyrimidin-2-yl, hexahydropyrimidin-4-yl, hexahydropyrimidin-5-yl, piperazin-1-yl, piperazin-2-yl, piperazin-3-yl, hexahydro-1,3,5-triazin-1-yl, hexahydro-1,3,5-triazin-2-yl, oxepan-2-yl, oxepan-3-yl, oxepan-4-yl, thiepan-2-yl, thiepan-3-yl, thiepan-4-yl, 1,3-dioxepan-2-yl, 1,3-dioxepan-4-yl, 1,3-dioxepan-5-yl, 1,3-dioxepan-6-yl, 1,3-dithiepan-2-yl, 1,3-dithiepan-2-yl, 1,3-dithiepan-2-yl, 1,3-dithiepan-2-yl, 1,4-dioxepan-2-yl, 1,4-dioxepan-7-yl, hexahydroazepin-1-yl, hexahydroazepin-2-yl, hexahydroazepin-3-yl, hexahydroazepin-4-yl, hexahydro-1,3-diazepin-1-yl, hexahydro-1,3-diazepin-2-yl, hexahydro-1,3-diazepin-4-yl, hexahydro-1,4-diazepin-1-yl and hexahydro-1,4-diazepin-2-yl.

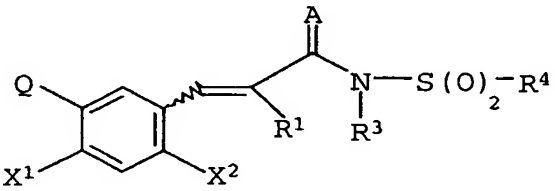
Examples of unsaturated heterocycles are: dihydrofuran–2–yl, 1,2–oxazolin–3–yl, 1,2–oxazolin–5–yl, 1,3–oxazolin–2–yl.

Examples of aromatic heterocyclyl are the 5- and 6-membered aromatic heterocyclic radicals, for example furyl, such as 2-furyl and 3-furyl, thienyl, such as 2-thienyl and 3-thienyl, pyrrolyl such as 2-pyrrolyl and 3-pyrrolyl, isoxazolyl, such as 3-isoxazolyl, 4-isoxazolyl and 5-isoxazolyl, isothiazolyl, such as 3-isothiazolyl, 4-isothiazolyl and 5-isothiazolyl, pyrazolyl, such as 3-pyrazolyl, 4-pyrazolyl and 5-

pyrazolyl, oxazolyl, such as 2-oxazolyl, 4-oxazolyl and 5-oxazolyl, thiazolyl, such as 2-thiazolyl, 4-thiazolyl and 5-thiazolyl, imidazolyl, such as 2-imidazolyl and 4-imidazolyl, oxadiazolyl, such as 1,2,4-oxadiazol-3-yl, 1,2,4-oxadiazol-5-yl and 1,3,4-oxadiazol-2-yl, thiadiazolyl, such as 1,2,4-thiadiazol-3-yl, 1,2,4-thiadiazol-5-yl and 1,3,4-thiadiazol-2-yl, triazolyl, such as 1,2,4-triazol-1-yl, 1,2,4-triazol-3-yl and 1,2,4-triazol-4-yl, pyridinyl, such as 2-pyridinyl, 3-pyridinyl and 4-pyridinyl, pyridazinyl, such as 3-pyridazinyl and 4-pyridazinyl, pyrimidinyl, such as 2-pyrimidinyl, 4-pyrimidinyl and 5-pyrimidinyl, furthermore 2-pyrazinyl, 1,3,5-triazin-2-yl and 1,2,4-triazin-3-yl, in particular pyridyl, pyrimidyl, furanyl and thienyl.

Bicyclic heterocycles are in general derived from monocyclic 5 or 6 membered heterocycles as mentioned above, which contain a condensed 5 or 6 membered carbocyclic or heterocyclic ring as mentioned above: Examples of bicyclic heterocyles are: indole, benzpyrazole, benzimidazole, benzotriazole, benzofurane, benzothiophene, benzothiazole, quinoline, isoquinoline, benzopyran, benzothiopyran etc.

It has to be understood that for n = 0 the phenyl ring of formula I is directly linked to the moiety CR^1R^2 by a bond. If Y is CHR' and R^2 and R' together are a bond then formula I is as follows:



wherein R^1 and the phenyl ring can have E or Z conformation.

In a first embodiement of the present invention , the variables X^1, X^2, Q, Y, n, A and R^1 to R^4, are as defined below:

A is O or S;

X^1 and X^2 are each independently H or halogen;

Y is O, NR, or $S(O)_m$;

n is 0 or 1;

m is 0, 1, or 2;

R is H, C_1-C_4 alkyl, C_1-C_4 alkoxyalkyl, or optionally substituted benzyl;

R^1 and R^2 are each independently H, C_1-C_6 alkyl, or halogen, or R^1 and R^2 taken together are $=CH_2$, or form a cyclopropyl ring with the carbon to which they are attached;

R^3 is H, CN, C_1-C_6 alkyl, C_1-C_6 alkoxyalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_3-C_6 alkynyl or optionally substituted benzyl;

R^4 is NR^5R^6, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_3-C_6 alkynyl, optionally substituted phenyl or optionally substituted benzyl;

Q is selected from Q1 to Q7:

R^5 and R^6 are each independently H, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_3-C_{10} alkynyl, C_3-C_8 cyloalkyl, phenyl, benzyl or C_5-C_8 cycloalkenyl, where each of the aforementioned seven groups can be substituted with any combination of one to five halogen atoms, one to three C_1-C_6 alkoxy groups, one or two C_1-C_8 haloalkoxy groups, one or two cyano groups, one or two C_3-C_7 cycloalkyl groups, one or two $C(O)R^{25}$ groups, one or two $C(O)OR^{26}$ groups, one or two $C(O)NR^{28}R^{29}$ groups, one to three OR^{30} groups, one to three SR^{31} groups, one optionally substituted four to ten membered monocyclic or fused bicyclic heterocycle, one or two optionally substituted phenyl groups or one or two optionally substituted benzyl groups, or R_5 and R_6 together with the atom to which they are attached form a three to seven membered heterocycle;

A^1, A^2, A^3, A^4, A^5, A^6, A^7, A^8, and A^9 are each independently O or S;

R^7, R^8, R^9, R^{12}, R^{13}, R^{16}, R^{17}, R^{23} and R^{24} are each independently H, CN, NH_2, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_1-C_6 haloalkoxy, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_3-C_6 alkynyl, benzyl, OR^{32}, C_1-C_3 cyanoalkyl, or

R^7 and R^8 or R^{23} and R^{24} may be taken together with the atoms to which they are attached to represent a four- to seven membered ring, optionally interrupted by oxygen, sulfur or nitrogen and optionally substituted with one or more halogen or C_1-C_4 alkyl groups;

R^{10}, R^{11}, R^{14}, R^{15}, R^{19}, R^{20}, R^{21} and R^{22} are each independently H, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_3-C_6 alkynyl, OR^{33}, $S(O)_mR^{34}$, OSO_2R^{35}, $NR^{36}R^{37}$ or

R^{10} and R^{11} may be taken together with the atoms to which they are attached to represent a four to seven membered ring optionally substituted with one or more halogen or C_1-C_4 alkyl groups;

R^{18} is H, halogen, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_3-C_6 alkynyl, OR^{38} or SR^{39};

R^{25}, R^{26}, R^{28}, R^{29}, R^{30}, R^{31}, R^{32}, R^{33}, R^{34}, R^{35}, R^{36}, R^{37}, R^{38} and R^{39} are each independently H, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_3-C_6 alkynyl, optionally substituted phenyl or optionally substituted benzyl;

In a second embodiment of the present invention , the variables X^1, X^2, A and R^1 to R^4, are as defined above, Y is O, NR, or $S(O)_m$, n is 0 or 1, m is 0, 1, or 2, and Q is Q8.

In a third embodiment of the present invention , the variables X^1, X^2, A, Q and R^1 to R^4, are as defined above and Y is CHR' wherein R' is hydrogen or R' and R^2 form a bond.

With respect to the herbicidal activity of the compounds of formula I, the variable X^1 is preferably H, fluorine or chlorine. X^2 is preferably chlorine.

With respect to the herbicidal activity of the compounds of formula I, the variables A, Y, n, Q and R^1 to R^4, alone or in combination, are preferably as defined below:

A is O;

Y is O, NH or S, more preferably O;

n is 0 or 1, more preferably 1;

Q is Q2, wherein R^9, R^{10} and R^{11} are as defined above. More preferred are compounds I, wherein R^9, R^{10} and R^{11} alone or in combination are as defined below:

R^9 is NH_2, C_1-C_4 alkyl, C_3-C_4 alkenyl or C_3 -C_4 alkynyl, more preferably NH_2, or C_1-C_4 alkyl;

R^{10} is C_1-C_4 haloalkyl, more preferably trifluoromethyl; and

R^{11} is H;

Most preferred are compounds I, wherein Q2 is a radical Q2a or Q2b as defined below;

R^1 H, C_1-C_4 alkyl or halogen, more preferably H and methyl;

R^2 H, C_1-C_4 alkyl or halogen, more preferably H and methyl, with the possibility for R^2 also being chlorine, when R^1 is H;

R^3 is H or C_1-C_4 alkyl, more preferably H;

R^4 is NR^5R^6, C_1-C_4 alkyl, C_1-C_4 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_3-C_6 alkynyl, optionally substituted phenyl or optionally substituted benzyl, more preferably NR^5R^6, C_1-C_4 alkyl or C_1-C_4 haloalkyl, most preferred NR^5R^6. In

NR^5R^6 the variables R^5 and R^6 are as defined above. Preferably R^5 and R^6 are each independently H, C_1-C_6 alkyl, which may be substituted with 1, 2, 3, 4 or 5 halogen atoms, prefereably with fluorine or chlorine, C_2-C_6 alkenyl, C_3-C_6 alkynyl, C_3-C_7 cycloalkyl, phenyl, benzyl or C_3-C_7 cycloalkenyl. R^5 and R^6 may also be C_1-C_4 alkyl which carries one group selected from $COOR^{26}$, $CONR^{28}R^{29}$, OR^{30} or SR^{31}, wherein R^{26}, R^{28}, R^{29}, R^{30} and R^{31} are defined as above. R^5 and R^6 together with the atom to which they are attached may also form a three to seven membered saturated heterocyclyl, such as morpholinyl, piridinyl, piperazinyl or N-C_1-C_4-alkylpiperazinyl.

Desirable compounds of formula I include compounds I wherein the varables have the following meanings alone or most preferably in combination:

A is O;

Y is O, NH or S especially O;

n is 0 or 1, preferably 1;

R^1 and R^2 are each independently H, C_1-C_4 alkyl or halogen or form a cyclopropyl-1 ring with the carbon to which they are attached, more preferably H and methyl;

R^3 is H or C_1-C_4 alkyl, more preferably H;

R^4 is NR^5R^6, C_1-C_4 alkyl, C_1-C_4 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_3-C_6 alkynyl, optionally substituted phenyl or optionally substituted benzyl;

Q is Q2, especially Q2, wherein the variables R^9, R^{10} and R^{11} have the preferred meanings as defined above and most preferred a radical Q2a or Q2b;

R^5 and R^6 are each independently H, C_1-C_6 alkyl, C_2-C_6 alkenyl, C_3-C_6 alkynyl, C_3-C_7 cycloalkyl, phenyl, benzyl or C_3-C_7 cycloalkenyl; preferably R^5 is methyl;

A^2 and A^3 are each O;

R^9 is NH_2, C_1-C_4 alkyl, C_3 or C_4 alkenyl or C_3 -C_4 alkynyl;

R^{10} is C_1-C_4 haloalkyl; and

R^{11} is H.

With regard to the heterocyclic radicals Q1 to Q8 the variables A^1, A^2, A^3, A^4, A^5, A^6, A^7, A^8, A^9, A^{10}, A^{11}, R^7, R^8, R^9, R^{12}, R^{13}, R^{16}, R^{17}, R^{23} and R^{24}, alone or in combination, are preferably as defined below:

A^1, A^2, A^3, A^4, A^5, A^7, A^8, A^9, A^{10}, A^{11} are O;

A^6 is O or S;

R^7 is C_1-C_4-haloalkyl or C_1-C_4-alkyl, especially methyl, difluoromethyl or trifluoromethyl;

R^8 is C_1-C_4-haloalkyl or C_1-C_4-alkyl, especially methyl, difluoromethyl or trifluoromethyl; or

R^7 and R^8 taken together with the atoms to which they are attached represent a 6 membered ring;

R^9 is NH_2, C_1-C_4 alkyl, C_3-C_4 alkenyl or C_3 -C_4 alkynyl, more preferably NH_2 or C_1-C_4 alkyl;

R^{10} is C_1-C_4 haloalkyl, more preferably trifluoromethyl;

R^{11} is H;

R^{12} is C_1-C_4 alkyl, more preferably methyl;

R^{13} is C_1-C_4 alkyl, more preferably methyl;

R^{14} is C_1-C_4 haloalkyl, more preferably trifluoromethyl;

R^{15} is C_1-C_4 alkyl, more preferably methyl;

R^{16} is C_1-C_4 alkyl, more preferably methyl;

R^{17} is C_1-C_4 haloalkyl or C_1-C_4 haloalkoxy, more preferably difluoromethyl, trifluoromethyl, difluoromethoxy or trifluoromethoxy; and

R^{18} is halogen, more preferably bromine or chlorine;

R^{19} is halogen, more preferably chlorine;

R^{20}, R^{22} are H;

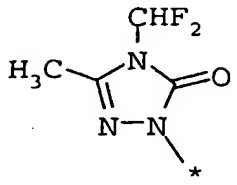
R^{21} is C_1-C_4 haloalkyl, SO_2R^{34} or OSO_2R^{35}; more preferably CF_3, SO_2CH_3, OSO_2CH_3, SO_2CF_3 or OSO_2CF_3;

R^{23} is C_1-C_4-haloalkyl or C_1-C_4-alkyl, especially methyl, difluoromethyl or trifluoromethyl;

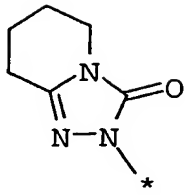
R^{24} is C_1-C_4-haloalkyl or C_1-C_4-alkyl, especially methyl, difluoromethyl or trifluoromethyl; or

R^{23} and R^{24} taken together with the atoms to which they are attached represent a 6 membered 1,2-diazacyclohexane ring or a 1,2-diaza-4-oxacycyclohexane ring.

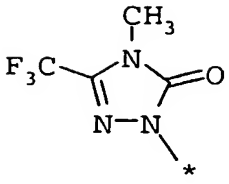
Preferred examples for Q1 to Q7 are the radicals of the formulae Q1a, Q1b, Q1c, Q2a,. Q2b, Q3a, Q4a, Q4b, Q5a, Q5b, Q5c, Q5d, Q6a, Q6b, Q6c, Q7a, Q7b and Q8a as defined below:



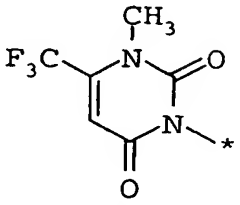
Q1a



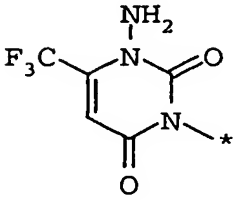
Q1b



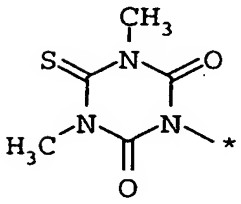
Q1c



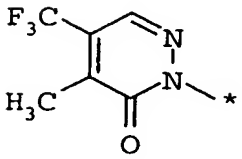
Q2a



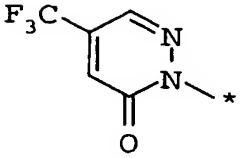
Q2b



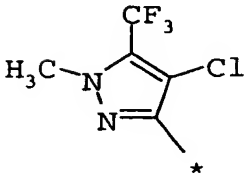
Q3a



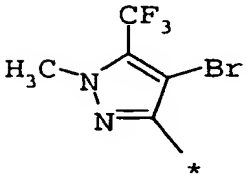
Q4a



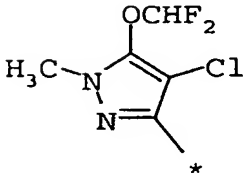
Q4b



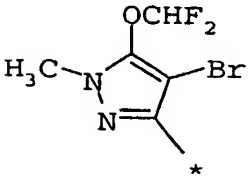
Q5a



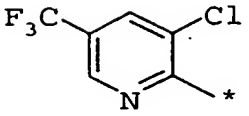
Q5b



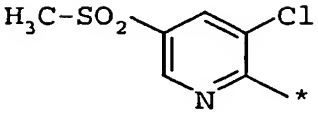
Q5c



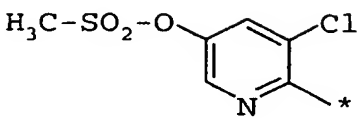
Q5d



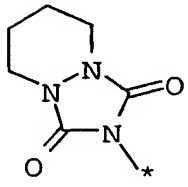
Q6a



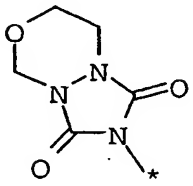
Q6b



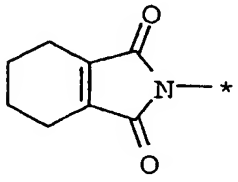
Q6c



Q7a



Q7b

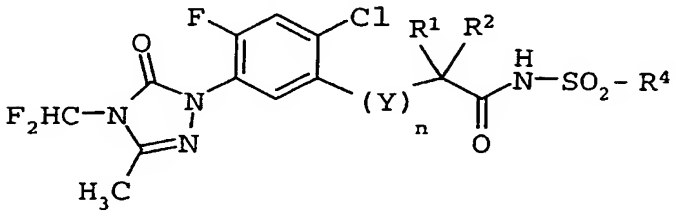


Q8a

The variables R^{25}, R^{26}, R^{30}, R^{31}, R^{32}, R^{33}, R^{34}, R^{35}, R^{38}, R^{39} are preferably different from H and more preferably selected from C_1-C_4 alkyl, C_1-C_4 haloalkyl, phenyl or benzyl.

R^{28}, R^{29}, R^{36}, R^{37} R^{39} are preferably H, C_1-C_4 alkyl or C_1-C_4 haloalkyl, it being also possible for R^{28} or R^{36} to be phenyl or benzyl.

Particularly preferred compounds of the general formula I are the compounds of the general formula I.1a as indicated below (compounds I in which Q = Q1a, R^3 = H, X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.1a)

Examples of compounds of formula I.1a are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.1a.1 to I.1a.1656.

Table 1:

	$(Y)_n$	R^1	R^2	R^4
1	-	H	H	$NH\text{-}SO_2CH_3$
2	-	H	H	$NH\text{-}SO_2CH_2CH_3$
3	-	H	H	$NH\text{-}SO_2CH_2CH_2CH_3$
4	-	H	H	$NH\text{-}SO_2CH(CH_3)_2$
5	-	H	H	$NH\text{-}SO_2C(CH_3)_3$
6	-	H	H	$NH\text{-}SO_2CH_2Cl$
7	-	H	H	$NH\text{-}SO_2CH_2CH_2Cl$
8	-	H	H	$NH\text{-}SO_2CH_2CH_2OCH_3$
9	-	H	H	$NH\text{-}SO_2CH_2CH_2SCH_3$
10	-	H	H	$N(CH_3)\text{-}SO_2CH_3$
11	-	H	H	$N(CH_3)\text{-}SO_2CH_2CH_3$
12	-	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
13	-	H	H	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
14	-	H	H	N(CH3)-SO2C(CH3)3
15	-	H	H	$N(CH_3)\text{-}SO_2CH_2Cl$
16	-	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
17	-	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$
18	-	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2SCH_3$
19	-	H	H	$N(CH_2CH_3)\text{-}SO_2CH_3$
20	-	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_3$
21	-	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2CH_3$
22	-	H	H	$N(CH_2CH_3)\text{-}SO_2CH(CH_3)_2$
23	-	H	H	$N(CH_2CH_3)\text{-}SO_2C(CH_3)_3$
24	-	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2Cl$
25	-	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2Cl$
26	-	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2OCH_3$
27	-	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2SCH_3$
28	-	H	H	$NH(CH_3)$
29	-	H	H	$NHCH_2CH_3$
30	-	H	H	$NHCH_2CH_2CH_3$
31	-	H	H	$NHCH(CH_3)_2$
32	-	H	H	$NHC(CH_3)_3$
33	-	H	H	$NHCH_2CH(CH_3)_2$
34	-	H	H	$NHCH(CH_3)CH_2CH_3$
35	-	H	H	$NHCH_2CH_2Cl$
36	-	H	H	$NHCH_2CH_2OCH_3$
37	-	H	H	$NHCH_2CH_2SCH_3$
38	-	H	H	$NHCH_2COOCH_3$
39	-	H	H	$NHCH_2CONH_2$
40	-	H	H	$NHCH_2CH{=}CH_2$
41	-	H	H	$NHCH_2C{\equiv}CH$
42	-	H	H	NH-Cyclopentyl
43	-	H	H	NH-Cyclohexyl
44	-	H	H	NH-Phenyl
45	-	H	H	$N(CH_3)_2$
46	-	H	H	$N(CH_3)CH_2CH_3$
47	-	H	H	$N(CH_3)CH(CH_3)_2$

	$(Y)_n$	R^1	R^2	R^4
48	-	H	H	$N(CH_3)C(CH_3)_3$
49	-	H	H	$N(CH_3)CH_2CH_2CH_3$
50	-	H	H	$N(CH_3)CH_2CH(CH_3)_2$
51	-	H	H	$N(CH_3)CH(CH_3)CH_2CH_3$
52	-	H	H	$N(CH_3)CH_2CH_2Cl$
53	-	H	H	$N(CH_3)CH_2CH_2OCH_3$
54	-	H	H	$N(CH_3)CH_2CH_2SCH_3$
55	-	H	H	$N(CH_3)CH_2COOCH_3$
56	-	H	H	$N(CH_3)CH_2CONH_2$
57	-	H	H	$N(CH_3)CH_2CH=CH_2$
58	-	H	H	$N(CH_3)CH_2C\equiv CH$
59	-	H	H	N(CH3)-Cyclopentyl
60	-	H	H	N(CH3)-Cyclohexyl
61	-	H	H	$N(CH_3)$-Phenyl
62	-	H	H	$N(CH_2CH_3)_2$
63	-	H	H	$N(CH_2CH_3)CH(CH_3)_2$
64	-	H	H	$N(CH_2CH_3)CH_2CH_2CH_3$
65	-	H	H	$N(CH_2CH_3)C(CH_3)_3$
66	-	H	H	$N(CH_2CH_3)CH_2CH(CH_3)_2$
67	-	H	H	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
68	-	H	H	$N(CH_2CH_3)CH_2CH_2Cl$
69	-	H	H	$N(CH_2CH_3)CH_2CH_2OCH_3$
70	-	H	H	$N(CH_2CH_3)CH_2CH_2SCH_3$
71	-	H	H	$N(CH_2CH_3)CH_2COOCH_3$
72	-	H	H	$N(CH_2CH_3)CH_2CONH_2$
73	-	H	H	$N(CH_2CH_3)CH_2CH=CH_2$
74	-	H	H	$N(CH_2CH_3)CH_2C\equiv CH$
75	-	H	H	$N(CH_2CH_3)$-Cyclopentyl
76	-	H	H	$N(CH_2CH_3)$-Cyclohexyl
77	-	H	H	$N(CH_2CH_3)$-Phenyl
78	-	H	H	$N(CH(CH_3)_2)_2$
79	-	H	H	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
80	-	H	H	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
81	-	H	H	$N(CH(CH_3)_2)CH_2CH_2Cl$
82	-	H	H	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
83	-	H	H	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
84	-	H	H	$N(CH(CH_3)_2)CH_2COOCH_3$
85	-	H	H	$N(CH(CH_3)_2)CH_2CONH_2$
86	-	H	H	$N(CH(CH_3)_2)CH_2CH=CH_2$
87	-	H	H	$N(CH(CH_3)_2)CH_2C\equiv CH$
88	-	H	H	$(CH(CH_3)_2)$H-Cyclopentyl
89	-	H	H	$N(CH(CH_3)_2)$-Cyclohexyl
90	-	H	H	$N(CH(CH_3)_2)$-Phenyl
91	-	H	H	Morpholin-1-yl
92	-	H	H	Piperidin-1-yl
93	-	H	CH_3	$NH\text{-}SO_2CH_3$
94	-	H	CH_3	$NH\text{-}SO_2CH_2CH_3$
95	-	H	CH_3	$NH\text{-}SO_2CH_2CH_2CH_3$
96	-	H	CH_3	$NH\text{-}SO_2CH(CH_3)_2$
97	-	H	CH_3	$NH\text{-}SO_2C(CH_3)_3$

	$(Y)_n$	R^1	R^2	R^4
98	-	H	CH_3	$NH\text{-}SO_2CH_2Cl$
99	-	H	CH_3	$NH\text{-}SO_2CH_2CH_2Cl$
100	-	H	CH_3	$NH\text{-}SO_2CH_2CH_2OCH_3$
101	-	H	CH_3	$NH\text{-}SO_2CH_2CH_2SCH_3$
102	-	H	CH_3	$N(CH_3)\text{-}SO_2CH_3$
103	-	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_3$
104	-	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
105	-	H	CH_3	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
106	-	H	CH_3	$N(CH3)\text{-}SO_2C(CH_3)_3$
107	-	H	CH_3	$N(CH_3)\text{-}SO_2CH_2Cl$
108	-	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
109	-	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$
110	-	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2SCH_3$
111	-	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_3$
112	-	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_3$
113	-	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2CH_3$
114	-	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH(CH_3)_2$
115	-	H	CH_3	$N(CH_2CH3)\text{-}SO2C(CH3)3$
116	-	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2Cl$
117	-	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2Cl$
118	-	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2OCH_3$
119	-	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2SCH_3$
120	-	H	CH_3	$NH(CH_3)$
121	-	H	CH_3	$NHCH_2CH_3$
122	-	H	CH_3	$NHCH_2CH_2CH_3$
123	-	H	CH_3	$NHCH(CH_3)_2$
124	-	H	CH_3	$NHC(CH_3)_3$
125	-	H	CH_3	$NHCH_2CH(CH_3)_2$
126	-	H	CH_3	$NHCH(CH_3)CH_2CH_3$
127	-	H	CH_3	$NHCH_2CH_2Cl$
128	-	H	CH_3	$NHCH_2CH_2OCH_3$
129	-	H	CH_3	$NHCH_2CH_2SCH_3$
130	-	H	CH_3	$NHCH_2COOCH_3$
131	-	H	CH_3	$NHCH_2CONH_2$
132	-	H	CH_3	$NHCH_2CH{=}CH_2$
133	-	H	CH_3	$NHCH_2C{\equiv}CH$
134	-	H	CH_3	NH-Cyclopentyl
135	-	H	CH_3	NH-Cyclohexyl
136	-	H	CH_3	NH-Phenyl
137	-	H	CH_3	$N(CH_3)_2$
138	-	H	CH_3	$N(CH_3)CH_2CH_3$
139	-	H	CH_3	$N(CH_3)CH(CH_3)_2$
140	-	H	CH_3	$N(CH_3)C(CH_3)_3$
141	-	H	CH_3	$N(CH_3)CH_2CH_2CH_3$
142	-	H	CH_3	$N(CH_3)CH_2CH(CH_3)_2$
143	-	H	CH_3	$N(CH_3)CH(CH_3)CH_2CH_3$
144	-	H	CH_3	$N(CH_3)CH_2CH_2Cl$
145	-	H	CH_3	$N(CH_3)CH_2CH_2OCH_3$
146	-	H	CH_3	$N(CH_3)CH_2CH_2SCH_3$
147	-	H	CH_3	$N(CH_3)CH_2COOCH_3$

	$(Y)_n$	R^1	R^2	R^4
148	-	H	CH_3	$N(CH_3)CH_2CONH_2$
149	-	H	CH_3	$N(CH_3)CH_2CH=CH_2$
150	-	H	CH_3	$N(CH_3)CH_2C\equiv CH$
151	-	H	CH_3	N(CH3)-Cyclopentyl
152	-	H	CH_3	N(CH3)-Cyclohexyl
153	-	H	CH_3	$N(CH_3)$-Phenyl
154	-	H	CH_3	$N(CH_2CH_3)_2$
155	-	H	CH_3	$N(CH_2CH_3)CH(CH_3)_2$
156	-	H	CH_3	$N(CH_2CH_3)CH_2CH_2CH_3$
157	-	H	CH_3	$N(CH_2CH_3)C(CH_3)_3$
158	-	H	CH_3	$N(CH_2CH_3)CH_2CH(CH_3)_2$
159	-	H	CH_3	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
160	-	H	CH_3	$N(CH_2CH_3)CH_2CH_2Cl$
161	-	H	CH_3	$N(CH_2CH_3)CH_2CH_2OCH_3$
162	-	H	CH_3	$N(CH_2CH_3)CH_2CH_2SCH_3$
163	-	H	CH_3	$N(CH_2CH_3)CH_2COOCH_3$
164	-	H	CH_3	$N(CH_2CH_3)CH_2CONH_2$
165	-	H	CH_3	$N(CH_2CH_3)CH_2CH=CH_2$
166	-	H	CH_3	$N(CH_2CH_3)CH_2C\equiv CH$
167	-	H	CH_3	$N(CH_2CH_3)$-Cyclopentyl
168	-	H	CH_3	$N(CH_2CH_3)$-Cyclohexyl
169	-	H	CH_3	$N(CH_2CH_3)$-Phenyl
170	-	H	CH_3	$N(CH(CH_3)_2)_2$
171	-	H	CH_3	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
172	-	H	CH_3	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
173	-	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2Cl$
174	-	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
175	-	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
176	-	H	CH_3	$N(CH(CH_3)_2)CH_2COOCH_3$
177	-	H	CH_3	$N(CH(CH_3)_2)CH_2CONH_2$
178	-	H	CH_3	$N(CH(CH_3)_2)CH_2CH=CH_2$
179	-	H	CH_3	$N(CH(CH_3)_2)CH_2C\equiv CH$
180	-	H	CH_3	$(CH(CH_3)_2)$H-Cyclopentyl
181	-	H	CH_3	$N(CH(CH_3)_2)$-Cyclohexyl
182	-	H	CH_3	$N(CH(CH_3)_2)$-Phenyl
183	-	H	CH_3	Morpholin-1-yl
184	-	H	CH_3	Piperidin-1-yl
185	-	CH_3	CH_3	$NH\text{-}SO_2CH_3$
186	-	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_3$
187	-	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2CH_3$
188	-	CH_3	CH_3	$NH\text{-}SO_2CH(CH_3)_2$
189	-	CH_3	CH_3	$NH\text{-}SO_2C(CH_3)_3$
190	-	CH_3	CH_3	$NH\text{-}SO_2CH_2Cl$
191	-	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2Cl$
192	-	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2OCH_3$
193	-	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2SCH_3$
194	-	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_3$
195	-	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_3$
196	-	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
197	-	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH(CH_3)_2$

	$(Y)_n$	R^1	R^2	R^4
198	-	CH_3	CH_3	$N(CH_3)$-$SO_2C(CH_3)_3$
199	-	CH_3	CH_3	$N(CH_3)$-SO_2CH_2Cl
200	-	CH_3	CH_3	$N(CH_3)$-$SO_2CH_2CH_2Cl$
201	-	CH_3	CH_3	$N(CH_3)$-$SO_2CH_2CH_2OCH_3$
202	-	CH_3	CH_3	$N(CH_3)$-$SO_2CH_2CH_2SCH_3$
203	-	CH_3	CH_3	$N(CH_2CH_3)$-SO_2CH_3
204	-	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_3$
205	-	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_2CH_3$
206	-	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH(CH_3)_2$
207	-	CH_3	CH_3	N(CH2CH3)-SO2C(CH3)3
208	-	CH_3	CH_3	$N(CH_2CH_3)$-SO_2CH_2Cl
209	-	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_2Cl$
210	-	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_2OCH_3$
211	-	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_2SCH_3$
212	-	CH_3	CH_3	$NH(CH_3)$
213	-	CH_3	CH_3	$NHCH_2CH_3$
214	-	CH_3	CH_3	$NHCH_2CH_2CH_3$
215	-	CH_3	CH_3	$NHCH(CH_3)_2$
216	-	CH_3	CH_3	$NHC(CH_3)_3$
217	-	CH_3	CH_3	$NHCH_2CH(CH_3)_2$
218	-	CH_3	CH_3	$NHCH(CH_3)CH_2CH_3$
219	-	CH_3	CH_3	$NHCH_2CH_2Cl$
220	-	CH_3	CH_3	$NHCH_2CH_2OCH_3$
221	-	CH_3	CH_3	$NHCH_2CH_2SCH_3$
222	-	CH_3	CH_3	$NHCH_2COOCH_3$
223	-	CH_3	CH_3	$NHCH_2CONH_2$
224	-	CH_3	CH_3	$NHCH_2CH=CH_2$
225	-	CH_3	CH_3	$NHCH_2C\equiv CH$
226	-	CH_3	CH_3	NH-Cyclopentyl
227	-	CH_3	CH_3	NH-Cyclohexyl
228	-	CH_3	CH_3	NH-Phenyl
229	-	CH_3	CH_3	$N(CH_3)_2$
230	-	CH_3	CH_3	$N(CH_3)CH_2CH_3$
231	-	CH_3	CH_3	$N(CH_3)CH(CH_3)_2$
232	-	CH_3	CH_3	$N(CH_3)C(CH_3)_3$
233	-	CH_3	CH_3	$N(CH_3)CH_2CH_2CH_3$
234	-	CH_3	CH_3	$N(CH_3)CH_2CH(CH_3)_2$
235	-	CH_3	CH_3	$N(CH_3)CH(CH_3)CH_2CH_3$
236	-	CH_3	CH_3	$N(CH_3)CH_2CH_2Cl$
237	-	CH_3	CH_3	$N(CH_3)CH_2CH_2OCH_3$
238	-	CH_3	CH_3	$N(CH_3)CH_2CH_2SCH_3$
239	-	CH_3	CH_3	$N(CH_3)CH_2COOCH_3$
240	-	CH_3	CH_3	$N(CH_3)CH_2CONH_2$
241	-	CH_3	CH_3	$N(CH_3)CH_2CH=CH_2$
242	-	CH_3	CH_3	$N(CH_3)CH_2C\equiv CH$
243	-	CH_3	CH_3	N(CH3)-Cyclopentyl
244	-	CH_3	CH_3	N(CH3)-Cyclohexyl
245	-	CH_3	CH_3	$N(CH_3)$-Phenyl
246	-	CH_3	CH_3	$N(CH_2CH_3)_2$
247	-	CH_3	CH_3	$N(CH_2CH_3)CH(CH_3)_2$

	$(Y)_n$	R^1	R^2	R^4
248	-	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2CH_3$
249	-	CH_3	CH_3	$N(CH_2CH_3)C(CH_3)_3$
250	-	CH_3	CH_3	$N(CH_2CH_3)CH_2CH(CH_3)_2$
251	-	CH_3	CH_3	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
252	-	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2Cl$
253	-	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2OCH_3$
254	-	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2SCH_3$
255	-	CH_3	CH_3	$N(CH_2CH_3)CH_2COOCH_3$
256	-	CH_3	CH_3	$N(CH_2CH_3)CH_2CONH_2$
257	-	CH_3	CH_3	$N(CH_2CH_3)CH_2CH=CH_2$
258	-	CH_3	CH_3	$N(CH_2CH_3)CH_2C\equiv CH$
259	-	CH_3	CH_3	$N(CH_2CH_3)$-Cyclopentyl
260	-	CH_3	CH_3	$N(CH_2CH_3)$-Cyclohexyl
261	-	CH_3	CH_3	$N(CH_2CH_3)$-Phenyl
262	-	CH_3	CH_3	$N(CH(CH_3)_2)_2$
263	-	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
264	-	CH_3	CH_3	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
265	-	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2Cl$
266	-	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
267	-	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
268	-	CH_3	CH_3	$N(CH(CH_3)_2)CH_2COOCH_3$
269	-	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CONH_2$
270	-	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH=CH_2$
271	-	CH_3	CH_3	$N(CH(CH_3)_2)CH_2C\equiv CH$
272	-	CH_3	CH_3	$(CH(CH_3)_2)H$-Cyclopentyl
273	-	CH_3	CH_3	$N(CH(CH_3)_2)$-Cyclohexyl
274	-	CH_3	CH_3	$N(CH(CH_3)_2)$-Phenyl
275	-	CH_3	CH_3	Morpholin-1-yl
276	-	CH_3	CH_3	Piperidin-1-yl
277	O	H	H	$NH\text{-}SO_2CH_3$
278	O	H	H	$NH\text{-}SO_2CH_2CH_3$
279	O	H	H	$NH\text{-}SO_2CH_2CH_2CH_3$
280	O	H	H	$NH\text{-}SO_2CH(CH_3)_2$
281	O	H	H	$NH\text{-}SO_2C(CH_3)_3$
282	O	H	H	$NH\text{-}SO_2CH_2Cl$
283	O	H	H	$NH\text{-}SO_2CH_2CH_2Cl$
284	O	H	H	$NH\text{-}SO_2CH_2CH_2OCH_3$
285	O	H	H	$NH\text{-}SO_2CH_2CH_2SCH_3$
286	O	H	H	$N(CH_3)\text{-}SO_2CH_3$
287	O	H	H	$N(CH_3)\text{-}SO_2CH_2CH_3$
288	O	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
289	O	H	H	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
290	O	H	H	N(CH3)-SO2C(CH3)3
291	O	H	H	$N(CH_3)\text{-}SO_2CH_2Cl$
292	O	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
293	O	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$
294	O	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2SCH_3$
295	O	H	H	$N(CH_2CH_3)\text{-}SO_2CH_3$
296	O	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_3$
297	O	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2CH_3$

	$(Y)_n$	R^1	R^2	R^4
298	O	H	H	$N(CH_2CH_3)$-$SO_2CH(CH_3)_2$
299	O	H	H	N(CH2CH3)-SO2C(CH3)3
300	O	H	H	$N(CH_2CH_3)$-SO_2CH_2Cl
301	O	H	H	$N(CH_2CH_3)$-$SO_2CH_2CH_2Cl$
302	O	H	H	$N(CH_2CH_3)$-$SO_2CH_2CH_2OCH_3$
303	O	H	H	$N(CH_2CH_3)$-$SO_2CH_2CH_2SCH_3$
304	O	H	H	$NH(CH_3)$
305	O	H	H	$NHCH_2CH_3$
306	O	H	H	$NHCH_2CH_2CH_3$
307	O	H	H	$NHCH(CH_3)_2$
308	O	H	H	$NHC(CH_3)_3$
309	O	H	H	$NHCH_2CH(CH_3)_2$
310	O	H	H	$NHCH(CH_3)CH_2CH_3$
311	O	H	H	$NHCH_2CH_2Cl$
312	O	H	H	$NHCH_2CH_2OCH_3$
313	O	H	H	$NHCH_2CH_2SCH_3$
314	O	H	H	$NHCH_2COOCH_3$
315	O	H	H	$NHCH_2CONH_2$
316	O	H	H	$NHCH_2CH=CH_2$
317	O	H	H	$NHCH_2C\equiv CH$
318	O	H	H	NH-Cyclopentyl
319	O	H	H	NH-Cyclohexyl
320	O	H	H	NH-Phenyl
321	O	H	H	$N(CH_3)_2$
322	O	H	H	$N(CH_3)CH_2CH_3$
323	O	H	H	$N(CH_3)CH(CH_3)_2$
324	O	H	H	$N(CH_3)C(CH_3)_3$
325	O	H	H	$N(CH_3)CH_2CH_2CH_3$
326	O	H	H	$N(CH_3)CH_2CH(CH_3)_2$
327	O	H	H	$N(CH_3)CH(CH_3)CH_2CH_3$
328	O	H	H	$N(CH_3)CH_2CH_2Cl$
329	O	H	H	$N(CH_3)CH_2CH_2OCH_3$
330	O	H	H	$N(CH_3)CH_2CH_2SCH_3$
331	O	H	H	$N(CH_3)CH_2COOCH_3$
332	O	H	H	$N(CH_3)CH_2CONH_2$
333	O	H	H	$N(CH_3)CH_2CH=CH_2$
334	O	H	H	$N(CH_3)CH_2C\equiv CH$
335	O	H	H	N(CH3)-Cyclopentyl
336	O	H	H	N(CH3)-Cyclohexyl
337	O	H	H	$N(CH_3)$-Phenyl
338	O	H	H	$N(CH_2CH_3)_2$
339	O	H	H	$N(CH_2CH_3)CH(CH_3)_2$
340	O	H	H	$N(CH_2CH_3)CH_2CH_2CH_3$
341	O	H	H	$N(CH_2CH_3)C(CH_3)_3$
342	O	H	H	$N(CH_2CH_3)CH_2CH(CH_3)_2$
343	O	H	H	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
344	O	H	H	$N(CH_2CH_3)CH_2CH_2Cl$
345	O	H	H	$N(CH_2CH_3)CH_2CH_2OCH_3$
346	O	H	H	$N(CH_2CH_3)CH_2CH_2SCH_3$
347	O	H	H	$N(CH_2CH_3)CH_2COOCH_3$

	$(Y)_n$	R^1	R^2	R^4
348	O	H	H	$N(CH_2CH_3)CH_2CONH_2$
349	O	H	H	$N(CH_2CH_3)CH_2CH=CH_2$
350	O	H	H	$N(CH_2CH_3)CH_2C\equiv CH$
351	O	H	H	$N(CH_2CH_3)$-Cyclopentyl
352	O	H	H	$N(CH_2CH_3)$-Cyclohexyl
353	O	H	H	$N(CH_2CH_3)$-Phenyl
354	O	H	H	$N(CH(CH_3)_2)_2$
355	O	H	H	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
356	O	H	H	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
357	O	H	H	$N(CH(CH_3)_2)CH_2CH_2Cl$
358	O	H	H	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
359	O	H	H	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
360	O	H	H	$N(CH(CH_3)_2)CH_2COOCH_3$
361	O	H	H	$N(CH(CH_3)_2)CH_2CONH_2$
362	O	H	H	$N(CH(CH_3)_2)CH_2CH=CH_2$
363	O	H	H	$N(CH(CH_3)_2)CH_2C\equiv CH$
364	O	H	H	$(CH(CH_3)_2)H$-Cyclopentyl
365	O	H	H	$N(CH(CH_3)_2)$-Cyclohexyl
366	O	H	H	$N(CH(CH_3)_2)$-Phenyl
367	O	H	H	Morpholin-1-yl
368	O	H	H	Piperidin-1-yl
369	O	H	CH_3	$NH\text{-}SO_2CH_3$
370	O	H	CH_3	$NH\text{-}SO_2CH_2CH_3$
371	O	H	CH_3	$NH\text{-}SO_2CH_2CH_2CH_3$
372	O	H	CH_3	$NH\text{-}SO_2CH(CH_3)_2$
373	O	H	CH_3	$NH\text{-}SO_2C(CH_3)_3$
374	O	H	CH_3	$NH\text{-}SO_2CH_2Cl$
375	O	H	CH_3	$NH\text{-}SO_2CH_2CH_2Cl$
376	O	H	CH_3	$NH\text{-}SO_2CH_2CH_2OCH_3$
377	O	H	CH_3	$NH\text{-}SO_2CH_2CH_2SCH_3$
378	O	H	CH_3	$N(CH_3)\text{-}SO_2CH_3$
379	O	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_3$
380	O	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
381	O	H	CH_3	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
382	O	H	CH_3	N(CH3)-SO2C(CH3)3
383	O	H	CH_3	$N(CH_3)\text{-}SO_2CH_2Cl$
384	O	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
385	O	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$
386	O	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2SCH_3$
387	O	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_3$
388	O	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_3$
389	O	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2CH_3$
390	O	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH(CH_3)_2$
391	O	H	CH_3	N(CH2CH3)-SO2C(CH3)3
392	O	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2Cl$
393	O	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2Cl$
394	O	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2OCH_3$
395	O	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2SCH_3$
396	O	H	CH_3	$NH(CH_3)$
397	O	H	CH_3	$NHCH_2CH_3$

	$(Y)_n$	R^1	R^2	R^4
398	O	H	CH_3	$NHCH_2CH_2CH_3$
399	O	H	CH_3	$NHCH(CH_3)_2$
400	O	H	CH_3	$NHC(CH_3)_3$
401	O	H	CH_3	$NHCH_2CH(CH_3)_2$
402	O	H	CH_3	$NHCH(CH_3)CH_2CH_3$
403	O	H	CH_3	$NHCH_2CH_2Cl$
404	O	H	CH_3	$NHCH_2CH_2OCH_3$
405	O	H	CH_3	$NHCH_2CH_2SCH_3$
406	O	H	CH_3	$NHCH_2COOCH_3$
407	O	H	CH_3	$NHCH_2CONH_2$
408	O	H	CH_3	$NHCH_2CH=CH_2$
409	O	H	CH_3	$NHCH_2C\equiv CH$
410	O	H	CH_3	NH-Cyclopentyl
411	O	H	CH_3	NH-Cyclohexyl
412	O	H	CH_3	NH-Phenyl
413	O	H	CH_3	$N(CH_3)_2$
414	O	H	CH_3	$N(CH_3)CH_2CH_3$
415	O	H	CH_3	$N(CH_3)CH(CH_3)_2$
416	O	H	CH_3	$N(CH_3)C(CH_3)_3$
417	O	H	CH_3	$N(CH_3)CH_2CH_2CH_3$
418	O	H	CH_3	$N(CH_3)CH_2CH(CH_3)_2$
419	O	H	CH_3	$N(CH_3)CH(CH_3)CH_2CH_3$
420	O	H	CH_3	$N(CH_3)CH_2CH_2Cl$
421	O	H	CH_3	$N(CH_3)CH_2CH_2OCH_3$
422	O	H	CH_3	$N(CH_3)CH_2CH_2SCH_3$
423	O	H	CH_3	$N(CH_3)CH_2COOCH_3$
424	O	H	CH_3	$N(CH_3)CH_2CONH_2$
425	O	H	CH_3	$N(CH_3)CH_2CH=CH_2$
426	O	H	CH_3	$N(CH_3)CH_2C\equiv CH$
427	O	H	CH_3	N(CH3)-Cyclopentyl
428	O	H	CH_3	N(CH3)-Cyclohexyl
429	O	H	CH_3	$N(CH_3)$-Phenyl
430	O	H	CH_3	$N(CH_2CH_3)_2$
431	O	H	CH_3	$N(CH_2CH_3)CH(CH_3)_2$
432	O	H	CH_3	$N(CH_2CH_3)CH_2CH_2CH_3$
433	O	H	CH_3	$N(CH_2CH_3)C(CH_3)_3$
434	O	H	CH_3	$N(CH_2CH_3)CH_2CH(CH_3)_2$
435	O	H	CH_3	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
436	O	H	CH_3	$N(CH_2CH_3)CH_2CH_2Cl$
437	O	H	CH_3	$N(CH_2CH_3)CH_2CH_2OCH_3$
438	O	H	CH_3	$N(CH_2CH_3)CH_2CH_2SCH_3$
439	O	H	CH_3	$N(CH_2CH_3)CH_2COOCH_3$
440	O	H	CH_3	$N(CH_2CH_3)CH_2CONH_2$
441	O	H	CH_3	$N(CH_2CH_3)CH_2CH=CH_2$
442	O	H	CH_3	$N(CH_2CH_3)CH_2C\equiv CH$
443	O	H	CH_3	$N(CH_2CH_3)$-Cyclopentyl
444	O	H	CH_3	$N(CH_2CH_3)$-Cyclohexyl
445	O	H	CH_3	$N(CH_2CH_3)$-Phenyl
446	O	H	CH_3	$N(CH(CH_3)_2)_2$
447	O	H	CH_3	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$

	$(Y)_n$	R^1	R^2	R^4
448	O	H	CH_3	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
449	O	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2Cl$
450	O	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
451	O	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
452	O	H	CH_3	$N(CH(CH_3)_2)CH_2COOCH_3$
453	O	H	CH_3	$N(CH(CH_3)_2)CH_2CONH_2$
454	O	H	CH_3	$N(CH(CH_3)_2)CH_2CH=CH_2$
455	O	H	CH_3	$N(CH(CH_3)_2)CH_2C\equiv CH$
456	O	H	CH_3	$(CH(CH_3)_2)$H-Cyclopentyl
457	O	H	CH_3	$N(CH(CH_3)_2)$-Cyclohexyl
458	O	H	CH_3	$N(CH(CH_3)_2)$-Phenyl
459	O	H	CH_3	Morpholin-1-yl
460	O	H	CH_3	Piperidin-1-yl
461	O	CH_3	CH_3	$NH\text{-}SO_2CH_3$
462	O	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_3$
463	O	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2CH_3$
464	O	CH_3	CH_3	$NH\text{-}SO_2CH(CH_3)_2$
465	O	CH_3	CH_3	$NH\text{-}SO_2C(CH_3)_3$
466	O	CH_3	CH_3	$NH\text{-}SO_2CH_2Cl$
467	O	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2Cl$
468	O	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2OCH_3$
469	O	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2SCH_3$
470	O	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_3$
471	O	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_3$
472	O	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
473	O	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
474	O	CH_3	CH_3	N(CH3)-SO2C(CH3)3
475	O	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2Cl$
476	O	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
477	O	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$
478	O	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2SCH_3$
479	O	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_3$
480	O	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_3$
481	O	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2CH_3$
482	O	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH(CH_3)_2$
483	O	CH_3	CH_3	N(CH2CH3)-SO2C(CH3)3
484	O	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2Cl$
485	O	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2Cl$
486	O	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2OCH_3$
487	O	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2SCH_3$
488	O	CH_3	CH_3	$NH(CH_3)$
489	O	CH_3	CH_3	$NHCH_2CH_3$
490	O	CH_3	CH_3	$NHCH_2CH_2CH_3$
491	O	CH_3	CH_3	$NHCH(CH_3)_2$
492	O	CH_3	CH_3	$NHC(CH_3)_3$
493	O	CH_3	CH_3	$NHCH_2CH(CH_3)_2$
494	O	CH_3	CH_3	$NHCH(CH_3)CH_2CH_3$
495	O	CH_3	CH_3	$NHCH_2CH_2Cl$
496	O	CH_3	CH_3	$NHCH_2CH_2OCH_3$
497	O	CH_3	CH_3	$NHCH_2CH_2SCH_3$

	$(Y)_n$	R^1	R^2	R^4
498	O	CH_3	CH_3	$NHCH_2COOCH_3$
499	O	CH_3	CH_3	$NHCH_2CONH_2$
500	O	CH_3	CH_3	$NHCH_2CH=CH_2$
501	O	CH_3	CH_3	$NHCH_2C\equiv CH$
502	O	CH_3	CH_3	NH-Cyclopentyl
503	O	CH_3	CH_3	NH-Cyclohexyl
504	O	CH_3	CH_3	NH-Phenyl
505	O	CH_3	CH_3	$N(CH_3)_2$
506	O	CH_3	CH_3	$N(CH_3)CH_2CH_3$
507	O	CH_3	CH_3	$N(CH_3)CH(CH_3)_2$
508	O	CH_3	CH_3	$N(CH_3)C(CH_3)_3$
509	O	CH_3	CH_3	$N(CH_3)CH_2CH_2CH_3$
510	O	CH_3	CH_3	$N(CH_3)CH_2CH(CH_3)_2$
511	O	CH_3	CH_3	$N(CH_3)CH(CH_3)CH_2CH_3$
512	O	CH_3	CH_3	$N(CH_3)CH_2CH_2Cl$
513	O	CH_3	CH_3	$N(CH_3)CH_2CH_2OCH_3$
514	O	CH_3	CH_3	$N(CH_3)CH_2CH_2SCH_3$
515	O	CH_3	CH_3	$N(CH_3)CH_2COOCH_3$
516	O	CH_3	CH_3	$N(CH_3)CH_2CONH_2$
517	O	CH_3	CH_3	$N(CH_3)CH_2CH=CH_2$
518	O	CH_3	CH_3	$N(CH_3)CH_2C\equiv CH$
519	O	CH_3	CH_3	N(CH3)-Cyclopentyl
520	O	CH_3	CH_3	N(CH3)-Cyclohexyl
521	O	CH_3	CH_3	$N(CH_3)$-Phenyl
522	O	CH_3	CH_3	$N(CH_2CH_3)_2$
523	O	CH_3	CH_3	$N(CH_2CH_3)CH(CH_3)_2$
524	O	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2CH_3$
525	O	CH_3	CH_3	$N(CH_2CH_3)C(CH_3)_3$
526	O	CH_3	CH_3	$N(CH_2CH_3)CH_2CH(CH_3)_2$
527	O	CH_3	CH_3	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
528	O	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2Cl$
529	O	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2OCH_3$
530	O	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2SCH_3$
531	O	CH_3	CH_3	$N(CH_2CH_3)CH_2COOCH_3$
532	O	CH_3	CH_3	$N(CH_2CH_3)CH_2CONH_2$
533	O	CH_3	CH_3	$N(CH_2CH_3)CH_2CH=CH_2$
534	O	CH_3	CH_3	$N(CH_2CH_3)CH_2C\equiv CH$
535	O	CH_3	CH_3	$N(CH_2CH_3)$-Cyclopentyl
536	O	CH_3	CH_3	$N(CH_2CH_3)$-Cyclohexyl
537	O	CH_3	CH_3	$N(CH_2CH_3)$-Phenyl
538	O	CH_3	CH_3	$N(CH(CH_3)_2)_2$
539	O	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
540	O	CH_3	CH_3	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
541	O	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2Cl$
542	O	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
543	O	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
544	O	CH_3	CH_3	$N(CH(CH_3)_2)CH_2COOCH_3$
545	O	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CONH_2$
546	O	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH=CH_2$
547	O	CH_3	CH_3	$N(CH(CH_3)_2)CH_2C\equiv CH$

	$(Y)_n$	R^1	R^2	R^4
548	O	CH_3	CH_3	$(CH(CH_3)_2)$H-Cyclopentyl
549	O	CH_3	CH_3	$N(CH(CH_3)_2)$-Cyclohexyl
550	O	CH_3	CH_3	$N(CH(CH_3)_2)$-Phenyl
551	O	CH_3	CH_3	Morpholin-1-yl
552	O	CH_3	CH_3	Piperidin-1-yl
553	S	H	H	$NH\text{-}SO_2CH_3$
554	S	H	H	$NH\text{-}SO_2CH_2CH_3$
555	S	H	H	$NH\text{-}SO_2CH_2CH_2CH_3$
556	S	H	H	$NH\text{-}SO_2CH(CH_3)_2$
557	S	H	H	$NH\text{-}SO_2C(CH_3)_3$
558	S	H	H	$NH\text{-}SO_2CH_2Cl$
559	S	H	H	$NH\text{-}SO_2CH_2CH_2Cl$
560	S	H	H	$NH\text{-}SO_2CH_2CH_2OCH_3$
561	S	H	H	$NH\text{-}SO_2CH_2CH_2SCH_3$
562	S	H	H	$N(CH_3)\text{-}SO_2CH_3$
563	S	H	H	$N(CH_3)\text{-}SO_2CH_2CH_3$
564	S	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
565	S	H	H	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
566	S	H	H	N(CH3)-SO2C(CH3)3
567	S	H	H	$N(CH_3)\text{-}SO_2CH_2Cl$
568	S	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
569	S	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$
570	S	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2SCH_3$
571	S	H	H	$N(CH_2CH_3)\text{-}SO_2CH_3$
572	S	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_3$
573	S	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2CH_3$
574	S	H	H	$N(CH_2CH_3)\text{-}SO_2CH(CH_3)_2$
575	S	H	H	N(CH2CH3)-SO2C(CH3)3
576	S	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2Cl$
577	S	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2Cl$
578	S	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2OCH_3$
579	S	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2SCH_3$
580	S	H	H	$NH(CH_3)$
581	S	H	H	$NHCH_2CH_3$
582	S	H	H	$NHCH_2CH_2CH_3$
583	S	H	H	$NHCH(CH_3)_2$
584	S	H	H	$NHC(CH_3)_3$
585	S	H	H	$NHCH_2CH(CH_3)_2$
586	S	H	H	$NHCH(CH_3)CH_2CH_3$
587	S	H	H	$NHCH_2CH_2Cl$
588	S	H	H	$NHCH_2CH_2OCH_3$
589	S	H	H	$NHCH_2CH_2SCH_3$
590	S	H	H	$NHCH_2COOCH_3$
591	S	H	H	$NHCH_2CONH_2$
592	S	H	H	$NHCH_2CH{=}CH_2$
593	S	H	H	$NHCH_2C{\equiv}CH$
594	S	H	H	NH-Cyclopentyl
595	S	H	H	NH-Cyclohexyl
596	S	H	H	NH-Phenyl
597	S	H	H	$N(CH_3)_2$

	$(Y)_n$	R^1	R^2	R^4
598	S	H	H	$N(CH_3)CH_2CH_3$
599	S	H	H	$N(CH_3)CH(CH_3)_2$
600	S	H	H	$N(CH_3)C(CH_3)_3$
601	S	H	H	$N(CH_3)CH_2CH_2CH_3$
602	S	H	H	$N(CH_3)CH_2CH(CH_3)_2$
603	S	H	H	$N(CH_3)CH(CH_3)CH_2CH_3$
604	S	H	H	$N(CH_3)CH_2CH_2Cl$
605	S	H	H	$N(CH_3)CH_2CH_2OCH_3$
606	S	H	H	$N(CH_3)CH_2CH_2SCH_3$
607	S	H	H	$N(CH_3)CH_2COOCH_3$
608	S	H	H	$N(CH_3)CH_2CONH_2$
609	S	H	H	$N(CH_3)CH_2CH=CH_2$
610	S	H	H	$N(CH_3)CH_2C\equiv CH$
611	S	H	H	N(CH3)-Cyclopentyl
612	S	H	H	N(CH3)-Cyclohexyl
613	S	H	H	$N(CH_3)$-Phenyl
614	S	H	H	$N(CH_2CH_3)_2$
615	S	H	H	$N(CH_2CH_3)CH(CH_3)_2$
616	S	H	H	$N(CH_2CH_3)CH_2CH_2CH_3$
617	S	H	H	$N(CH_2CH_3)C(CH_3)_3$
618	S	H	H	$N(CH_2CH_3)CH_2CH(CH_3)_2$
619	S	H	H	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
620	S	H	H	$N(CH_2CH_3)CH_2CH_2Cl$
621	S	H	H	$N(CH_2CH_3)CH_2CH_2OCH_3$
622	S	H	H	$N(CH_2CH_3)CH_2CH_2SCH_3$
623	S	H	H	$N(CH_2CH_3)CH_2COOCH_3$
624	S	H	H	$N(CH_2CH_3)CH_2CONH_2$
625	S	H	H	$N(CH_2CH_3)CH_2CH=CH_2$
626	S	H	H	$N(CH_2CH_3)CH_2C\equiv CH$
627	S	H	H	$N(CH_2CH_3)$-Cyclopentyl
628	S	H	H	$N(CH_2CH_3)$-Cyclohexyl
629	S	H	H	$N(CH_2CH_3)$-Phenyl
630	S	H	H	$N(CH(CH_3)_2)_2$
631	S	H	H	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
632	S	H	H	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
633	S	H	H	$N(CH(CH_3)_2)CH_2CH_2Cl$
634	S	H	H	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
635	S	H	H	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
636	S	H	H	$N(CH(CH_3)_2)CH_2COOCH_3$
637	S	H	H	$N(CH(CH_3)_2)CH_2CONH_2$
638	S	H	H	$N(CH(CH_3)_2)CH_2CH=CH_2$
639	S	H	H	$N(CH(CH_3)_2)CH_2C\equiv CH$
640	S	H	H	$(CH(CH_3)_2)$H-Cyclopentyl
641	S	H	H	$N(CH(CH_3)_2)$-Cyclohexyl
642	S	H	H	$N(CH(CH_3)_2)$-Phenyl
643	S	H	H	Morpholin-1-yl
644	S	H	H	Piperidin-1-yl
645	S	H	CH_3	$NH\text{-}SO_2CH_3$
646	S	H	CH_3	$NH\text{-}SO_2CH_2CH_3$
647	S	H	CH_3	$NH\text{-}SO_2CH_2CH_2CH_3$

	$(Y)_n$	R^1	R^2	R^4
648	S	H	CH_3	$NH\text{-}SO_2CH(CH_3)_2$
649	S	H	CH_3	$NH\text{-}SO_2C(CH_3)_3$
650	S	H	CH_3	$NH\text{-}SO_2CH_2Cl$
651	S	H	CH_3	$NH\text{-}SO_2CH_2CH_2Cl$
652	S	H	CH_3	$NH\text{-}SO_2CH_2CH_2OCH_3$
653	S	H	CH_3	$NH\text{-}SO_2CH_2CH_2SCH_3$
654	S	H	CH_3	$N(CH_3)\text{-}SO_2CH_3$
655	S	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_3$
656	S	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
657	S	H	CH_3	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
658	S	H	CH_3	N(CH3)-SO2C(CH3)3
659	S	H	CH_3	$N(CH_3)\text{-}SO_2CH_2Cl$
660	S	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
661	S	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$
662	S	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2SCH_3$
663	S	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_3$
664	S	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_3$
665	S	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2CH_3$
666	S	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH(CH_3)_2$
667	S	H	CH_3	N(CH2CH3)-SO2C(CH3)3
668	S	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2Cl$
669	S	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2Cl$
670	S	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2OCH_3$
671	S	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2SCH_3$
672	S	H	CH_3	$NH(CH_3)$
673	S	H	CH_3	$NHCH_2CH_3$
674	S	H	CH_3	$NHCH_2CH_2CH_3$
675	S	H	CH_3	$NHCH(CH_3)_2$
676	S	H	CH_3	$NHC(CH_3)_3$
677	S	H	CH_3	$NHCH_2CH(CH_3)_2$
678	S	H	CH_3	$NHCH(CH_3)CH_2CH_3$
679	S	H	CH_3	$NHCH_2CH_2Cl$
680	S	H	CH_3	$NHCH_2CH_2OCH_3$
681	S	H	CH_3	$NHCH_2CH_2SCH_3$
682	S	H	CH_3	$NHCH_2COOCH_3$
683	S	H	CH_3	$NHCH_2CONH_2$
684	S	H	CH_3	$NHCH_2CH{=}CH_2$
685	S	H	CH_3	$NHCH_2C{\equiv}CH$
686	S	H	CH_3	NH-Cyclopentyl
687	S	H	CH_3	NH-Cyclohexyl
688	S	H	CH_3	NH-Phenyl
689	S	H	CH_3	$N(CH_3)_2$
690	S	H	CH_3	$N(CH_3)CH_2CH_3$
691	S	H	CH_3	$N(CH_3)CH(CH_3)_2$
692	S	H	CH_3	$N(CH_3)C(CH_3)_3$
693	S	H	CH_3	$N(CH_3)CH_2CH_2CH_3$
694	S	H	CH_3	$N(CH_3)CH_2CH(CH_3)_2$
695	S	H	CH_3	$N(CH_3)CH(CH_3)CH_2CH_3$
696	S	H	CH_3	$N(CH_3)CH_2CH_2Cl$
697	S	H	CH_3	$N(CH_3)CH_2CH_2OCH_3$

	$(Y)_n$	R^1	R^2	R^4
698	S	H	CH_3	$N(CH_3)CH_2CH_2SCH_3$
699	S	H	CH_3	$N(CH_3)CH_2COOCH_3$
700	S	H	CH_3	$N(CH_3)CH_2CONH_2$
701	S	H	CH_3	$N(CH_3)CH_2CH=CH_2$
702	S	H	CH_3	$N(CH_3)CH_2C\equiv CH$
703	S	H	CH_3	N(CH3)-Cyclopentyl
704	S	H	CH_3	N(CH3)-Cyclohexyl
705	S	H	CH_3	$N(CH_3)$-Phenyl
706	S	H	CH_3	$N(CH_2CH_3)_2$
707	S	H	CH_3	$N(CH_2CH_3)CH(CH_3)_2$
708	S	H	CH_3	$N(CH_2CH_3)CH_2CH_2CH_3$
709	S	H	CH_3	$N(CH_2CH_3)C(CH_3)_3$
710	S	H	CH_3	$N(CH_2CH_3)CH_2CH(CH_3)_2$
711	S	H	CH_3	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
712	S	H	CH_3	$N(CH_2CH_3)CH_2CH_2Cl$
713	S	H	CH_3	$N(CH_2CH_3)CH_2CH_2OCH_3$
714	S	H	CH_3	$N(CH_2CH_3)CH_2CH_2SCH_3$
715	S	H	CH_3	$N(CH_2CH_3)CH_2COOCH_3$
716	S	H	CH_3	$N(CH_2CH_3)CH_2CONH_2$
717	S	H	CH_3	$N(CH_2CH_3)CH_2CH=CH_2$
718	S	H	CH_3	$N(CH_2CH_3)CH_2C\equiv CH$
719	S	H	CH_3	$N(CH_2CH_3)$-Cyclopentyl
720	S	H	CH_3	$N(CH_2CH_3)$-Cyclohexyl
721	S	H	CH_3	$N(CH_2CH_3)$-Phenyl
722	S	H	CH_3	$N(CH(CH_3)_2)_2$
723	S	H	CH_3	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
724	S	H	CH_3	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
725	S	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2Cl$
726	S	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
727	S	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
728	S	H	CH_3	$N(CH(CH_3)_2)CH_2COOCH_3$
729	S	H	CH_3	$N(CH(CH_3)_2)CH_2CONH_2$
730	S	H	CH_3	$N(CH(CH_3)_2)CH_2CH=CH_2$
731	S	H	CH_3	$N(CH(CH_3)_2)CH_2C\equiv CH$
732	S	H	CH_3	$(CH(CH_3)_2)$H-Cyclopentyl
733	S	H	CH_3	$N(CH(CH_3)_2)$-Cyclohexyl
734	S	H	CH_3	$N(CH(CH_3)_2)$-Phenyl
735	S	H	CH_3	Morpholin-1-yl
736	S	H	CH_3	Piperidin-1-yl
737	S	CH_3	CH_3	$NH\text{-}SO_2CH_3$
738	S	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_3$
739	S	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2CH_3$
740	S	CH_3	CH_3	$NH\text{-}SO_2CH(CH_3)_2$
741	S	CH_3	CH_3	$NH\text{-}SO_2C(CH_3)_3$
742	S	CH_3	CH_3	$NH\text{-}SO_2CH_2Cl$
743	S	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2Cl$
744	S	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2OCH_3$
745	S	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2SCH_3$
746	S	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_3$
747	S	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_3$

	$(Y)_n$	R^1	R^2	R^4
748	S	CH_3	CH_3	$N(CH_3)$-$SO_2CH_2CH_2CH_3$
749	S	CH_3	CH_3	$N(CH_3)$-$SO_2CH(CH_3)_2$
750	S	CH_3	CH_3	N(CH3)-SO2C(CH3)3
751	S	CH_3	CH_3	$N(CH_3)$-SO_2CH_2Cl
752	S	CH_3	CH_3	$N(CH_3)$-$SO_2CH_2CH_2Cl$
753	S	CH_3	CH_3	$N(CH_3)$-$SO_2CH_2CH_2OCH_3$
754	S	CH_3	CH_3	$N(CH_3)$-$SO_2CH_2CH_2SCH_3$
755	S	CH_3	CH_3	$N(CH_2CH_3)$-SO_2CH_3
756	S	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_3$
757	S	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_2CH_3$
758	S	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH(CH_3)_2$
759	S	CH_3	CH_3	N(CH2CH3)-SO2C(CH3)3
760	S	CH_3	CH_3	$N(CH_2CH_3)$-SO_2CH_2Cl
761	S	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_2Cl$
762	S	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_2OCH_3$
763	S	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_2SCH_3$
764	S	CH_3	CH_3	$NH(CH_3)$
765	S	CH_3	CH_3	$NHCH_2CH_3$
766	S	CH_3	CH_3	$NHCH_2CH_2CH_3$
767	S	CH_3	CH_3	$NHCH(CH_3)_2$
768	S	CH_3	CH_3	$NHC(CH_3)_3$
769	S	CH_3	CH_3	$NHCH_2CH(CH_3)_2$
770	S	CH_3	CH_3	$NHCH(CH_3)CH_2CH_3$
771	S	CH_3	CH_3	$NHCH_2CH_2Cl$
772	S	CH_3	CH_3	$NHCH_2CH_2OCH_3$
773	S	CH_3	CH_3	$NHCH_2CH_2SCH_3$
774	S	CH_3	CH_3	$NHCH_2COOCH_3$
775	S	CH_3	CH_3	$NHCH_2CONH_2$
776	S	CH_3	CH_3	$NHCH_2CH=CH_2$
777	S	CH_3	CH_3	$NHCH_2C\equiv CH$
778	S	CH_3	CH_3	NH-Cyclopentyl
779	S	CH_3	CH_3	NH-Cyclohexyl
780	S	CH_3	CH_3	NH-Phenyl
781	S	CH_3	CH_3	$N(CH_3)_2$
782	S	CH_3	CH_3	$N(CH_3)CH_2CH_3$
783	S	CH_3	CH_3	$N(CH_3)CH(CH_3)_2$
784	S	CH_3	CH_3	$N(CH_3)C(CH_3)_3$
785	S	CH_3	CH_3	$N(CH_3)CH_2CH_2CH_3$
786	S	CH_3	CH_3	$N(CH_3)CH_2CH(CH_3)_2$
787	S	CH_3	CH_3	$N(CH_3)CH(CH_3)CH_2CH_3$
788	S	CH_3	CH_3	$N(CH_3)CH_2CH_2Cl$
789	S	CH_3	CH_3	$N(CH_3)CH_2CH_2OCH_3$
790	S	CH_3	CH_3	$N(CH_3)CH_2CH_2SCH_3$
791	S	CH_3	CH_3	$N(CH_3)CH_2COOCH_3$
792	S	CH_3	CH_3	$N(CH_3)CH_2CONH_2$
793	S	CH_3	CH_3	$N(CH_3)CH_2CH=CH_2$
794	S	CH_3	CH_3	$N(CH_3)CH_2C\equiv CH$
795	S	CH_3	CH_3	N(CH3)-Cyclopentyl
796	S	CH_3	CH_3	N(CH3)-Cyclohexyl
797	S	CH_3	CH_3	$N(CH_3)$-Phenyl

	$(Y)_n$	R^1	R^2	R^4
798	S	CH_3	CH_3	$N(CH_2CH_3)_2$
799	S	CH_3	CH_3	$N(CH_2CH_3)CH(CH_3)_2$
800	S	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2CH_3$
801	S	CH_3	CH_3	$N(CH_2CH_3)C(CH_3)_3$
802	S	CH_3	CH_3	$N(CH_2CH_3)CH_2CH(CH_3)_2$
803	S	CH_3	CH_3	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
804	S	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2Cl$
805	S	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2OCH_3$
806	S	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2SCH_3$
807	S	CH_3	CH_3	$N(CH_2CH_3)CH_2COOCH_3$
808	S	CH_3	CH_3	$N(CH_2CH_3)CH_2CONH_2$
809	S	CH_3	CH_3	$N(CH_2CH_3)CH_2CH=CH_2$
810	S	CH_3	CH_3	$N(CH_2CH_3)CH_2C\equiv CH$
811	S	CH_3	CH_3	$N(CH_2CH_3)$-Cyclopentyl
812	S	CH_3	CH_3	$N(CH_2CH_3)$-Cyclohexyl
813	S	CH_3	CH_3	$N(CH_2CH_3)$-Phenyl
814	S	CH_3	CH_3	$N(CH(CH_3)_2)_2$
815	S	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
816	S	CH_3	CH_3	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
817	S	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2Cl$
818	S	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
819	S	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
820	S	CH_3	CH_3	$N(CH(CH_3)_2)CH_2COOCH_3$
821	S	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CONH_2$
822	S	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH=CH_2$
823	S	CH_3	CH_3	$N(CH(CH_3)_2)CH_2C\equiv CH$
824	S	CH_3	CH_3	$(CH(CH_3)_2)$H-Cyclopentyl
825	S	CH_3	CH_3	$N(CH(CH_3)_2)$-Cyclohexyl
826	S	CH_3	CH_3	$N(CH(CH_3)_2)$-Phenyl
827	S	CH_3	CH_3	Morpholin-1-yl
828	S	CH_3	CH_3	Piperidin-1-yl
829	NH	H	H	$NH\text{-}SO_2CH_3$
830	NH	H	H	$NH\text{-}SO_2CH_2CH_3$
831	NH	H	H	$NH\text{-}SO_2CH_2CH_2CH_3$
832	NH	H	H	$NH\text{-}SO_2CH(CH_3)_2$
833	NH	H	H	$NH\text{-}SO_2C(CH_3)_3$
834	NH	H	H	$NH\text{-}SO_2CH_2Cl$
835	NH	H	H	$NH\text{-}SO_2CH_2CH_2Cl$
836	NH	H	H	$NH\text{-}SO_2CH_2CH_2OCH_3$
837	NH	H	H	$NH\text{-}SO_2CH_2CH_2SCH_3$
838	NH	H	H	$N(CH_3)\text{-}SO_2CH_3$
839	NH	H	H	$N(CH_3)\text{-}SO_2CH_2CH_3$
840	NH	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
841	NH	H	H	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
842	NH	H	H	N(CH3)-SO2C(CH3)3
843	NH	H	H	$N(CH_3)\text{-}SO_2CH_2Cl$
844	NH	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
845	NH	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$
846	NH	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2SCH_3$
847	NH	H	H	$N(CH_2CH_3)\text{-}SO_2CH_3$

	$(Y)_n$	R^1	R^2	R^4
848	NH	H	H	$N(CH_2CH_3)$-$SO_2CH_2CH_3$
849	NH	H	H	$N(CH_2CH_3)$-$SO_2CH_2CH_2CH_3$
850	NH	H	H	$N(CH_2CH_3)$-$SO_2CH(CH_3)_2$
851	NH	H	H	N(CH2CH3)-SO2C(CH3)3
852	NH	H	H	$N(CH_2CH_3)$-SO_2CH_2Cl
853	NH	H	H	$N(CH_2CH_3)$-$SO_2CH_2CH_2Cl$
854	NH	H	H	$N(CH_2CH_3)$-$SO_2CH_2CH_2OCH_3$
855	NH	H	H	$N(CH_2CH_3)$-$SO_2CH_2CH_2SCH_3$
856	NH	H	H	$NH(CH_3)$
857	NH	H	H	$NHCH_2CH_3$
858	NH	H	H	$NHCH_2CH_2CH_3$
859	NH	H	H	$NHCH(CH_3)_2$
860	NH	H	H	$NHC(CH_3)_3$
861	NH	H	H	$NHCH_2CH(CH_3)_2$
862	NH	H	H	$NHCH(CH_3)CH_2CH_3$
863	NH	H	H	$NHCH_2CH_2Cl$
864	NH	H	H	$NHCH_2CH_2OCH_3$
865	NH	H	H	$NHCH_2CH_2SCH_3$
866	NH	H	H	$NHCH_2COOCH_3$
867	NH	H	H	$NHCH_2CONH_2$
868	NH	H	H	$NHCH_2CH=CH_2$
869	NH	H	H	$NHCH_2C\equiv CH$
870	NH	H	H	NH-Cyclopentyl
871	NH	H	H	NH-Cyclohexyl
872	NH	H	H	NH-Phenyl
873	NH	H	H	$N(CH_3)_2$
874	NH	H	H	$N(CH_3)CH_2CH_3$
875	NH	H	H	$N(CH_3)CH(CH_3)_2$
876	NH	H	H	$N(CH_3)C(CH_3)_3$
877	NH	H	H	$N(CH_3)CH_2CH_2CH_3$
878	NH	H	H	$N(CH_3)CH_2CH(CH_3)_2$
879	NH	H	H	$N(CH_3)CH(CH_3)CH_2CH_3$
880	NH	H	H	$N(CH_3)CH_2CH_2Cl$
881	NH	H	H	$N(CH_3)CH_2CH_2OCH_3$
882	NH	H	H	$N(CH_3)CH_2CH_2SCH_3$
883	NH	H	H	$N(CH_3)CH_2COOCH_3$
884	NH	H	H	$N(CH_3)CH_2CONH_2$
885	NH	H	H	$N(CH_3)CH_2CH=CH_2$
886	NH	H	H	$N(CH_3)CH_2C\equiv CH$
887	NH	H	H	N(CH3)-Cyclopentyl
888	NH	H	H	N(CH3)-Cyclohexyl
889	NH	H	H	$N(CH_3)$-Phenyl
890	NH	H	H	$N(CH_2CH_3)_2$
891	NH	H	H	$N(CH_2CH_3)CH(CH_3)_2$
892	NH	H	H	$N(CH_2CH_3)CH_2CH_2CH_3$
893	NH	H	H	$N(CH_2CH_3)C(CH_3)_3$
894	NH	H	H	$N(CH_2CH_3)CH_2CH(CH_3)_2$
895	NH	H	H	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
896	NH	H	H	$N(CH_2CH_3)CH_2CH_2Cl$
897	NH	H	H	$N(CH_2CH_3)CH_2CH_2OCH_3$

	$(Y)_n$	R^1	R^2	R^4
898	NH	H	H	$N(CH_2CH_3)CH_2CH_2SCH_3$
899	NH	H	H	$N(CH_2CH_3)CH_2COOCH_3$
900	NH	H	H	$N(CH_2CH_3)CH_2CONH_2$
901	NH	H	H	$N(CH_2CH_3)CH_2CH=CH_2$
902	NH	H	H	$N(CH_2CH_3)CH_2C\equiv CH$
903	NH	H	H	$N(CH_2CH_3)$-Cyclopentyl
904	NH	H	H	$N(CH_2CH_3)$-Cyclohexyl
905	NH	H	H	$N(CH_2CH_3)$-Phenyl
906	NH	H	H	$N(CH(CH_3)_2)_2$
907	NH	H	H	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
908	NH	H	H	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
909	NH	H	H	$N(CH(CH_3)_2)CH_2CH_2Cl$
910	NH	H	H	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
911	NH	H	H	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
912	NH	H	H	$N(CH(CH_3)_2)CH_2COOCH_3$
913	NH	H	H	$N(CH(CH_3)_2)CH_2CONH_2$
914	NH	H	H	$N(CH(CH_3)_2)CH_2CH=CH_2$
915	NH	H	H	$N(CH(CH_3)_2)CH_2C\equiv CH$
916	NH	H	H	$(CH(CH_3)_2)H$-Cyclopentyl
917	NH	H	H	$N(CH(CH_3)_2)$-Cyclohexyl
918	NH	H	H	$N(CH(CH_3)_2)$-Phenyl
919	NH	H	H	Morpholin-1-yl
920	NH	H	H	Piperidin-1-yl
921	NH	H	CH_3	$NH\text{-}SO_2CH_3$
922	NH	H	CH_3	$NH\text{-}SO_2CH_2CH_3$
923	NH	H	CH_3	$NH\text{-}SO_2CH_2CH_2CH_3$
924	NH	H	CH_3	$NH\text{-}SO_2CH(CH_3)_2$
925	NH	H	CH_3	$NH\text{-}SO_2C(CH_3)_3$
926	NH	H	CH_3	$NH\text{-}SO_2CH_2Cl$
927	NH	H	CH_3	$NH\text{-}SO_2CH_2CH_2Cl$
928	NH	H	CH_3	$NH\text{-}SO_2CH_2CH_2OCH_3$
929	NH	H	CH_3	$NH\text{-}SO_2CH_2CH_2SCH_3$
930	NH	H	CH_3	$N(CH_3)\text{-}SO_2CH_3$
931	NH	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_3$
932	NH	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
933	NH	H	CH_3	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
934	NH	H	CH_3	N(CH3)-SO2C(CH3)3
935	NH	H	CH_3	$N(CH_3)\text{-}SO_2CH_2Cl$
936	NH	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
937	NH	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$
938	NH	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2SCH_3$
939	NH	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_3$
940	NH	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_3$
941	NH	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2CH_3$
942	NH	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH(CH_3)_2$
943	NH	H	CH_3	N(CH2CH3)-SO2C(CH3)3
944	NH	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2Cl$
945	NH	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2Cl$
946	NH	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2OCH_3$
947	NH	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2SCH_3$

	$(Y)_n$	R^1	R^2	R^4
948	NH	H	CH_3	$NH(CH_3)$
949	NH	H	CH_3	$NHCH_2CH_3$
950	NH	H	CH_3	$NHCH_2CH_2CH_3$
951	NH	H	CH_3	$NHCH(CH_3)_2$
952	NH	H	CH_3	$NHC(CH_3)_3$
953	NH	H	CH_3	$NHCH_2CH(CH_3)_2$
954	NH	H	CH_3	$NHCH(CH_3)CH_2CH_3$
955	NH	H	CH_3	$NHCH_2CH_2Cl$
956	NH	H	CH_3	$NHCH_2CH_2OCH_3$
957	NH	H	CH_3	$NHCH_2CH_2SCH_3$
958	NH	H	CH_3	$NHCH_2COOCH_3$
959	NH	H	CH_3	$NHCH_2CONH_2$
960	NH	H	CH_3	$NHCH_2CH=CH_2$
961	NH	H	CH_3	$NHCH_2C\equiv CH$
962	NH	H	CH_3	NH-Cyclopentyl
963	NH	H	CH_3	NH-Cyclohexyl
964	NH	H	CH_3	NH-Phenyl
965	NH	H	CH_3	$N(CH_3)_2$
966	NH	H	CH_3	$N(CH_3)CH_2CH_3$
967	NH	H	CH_3	$N(CH_3)CH(CH_3)_2$
968	NH	H	CH_3	$N(CH_3)C(CH_3)_3$
969	NH	H	CH_3	$N(CH_3)CH_2CH_2CH_3$
970	NH	H	CH_3	$N(CH_3)CH_2CH(CH_3)_2$
971	NH	H	CH_3	$N(CH_3)CH(CH_3)CH_2CH_3$
972	NH	H	CH_3	$N(CH_3)CH_2CH_2Cl$
973	NH	H	CH_3	$N(CH_3)CH_2CH_2OCH_3$
974	NH	H	CH_3	$N(CH_3)CH_2CH_2SCH_3$
975	NH	H	CH_3	$N(CH_3)CH_2COOCH_3$
976	NH	H	CH_3	$N(CH_3)CH_2CONH_2$
977	NH	H	CH_3	$N(CH_3)CH_2CH=CH_2$
978	NH	H	CH_3	$N(CH_3)CH_2C\equiv CH$
979	NH	H	CH_3	N(CH3)-Cyclopentyl
980	NH	H	CH_3	N(CH3)-Cyclohexyl
981	NH	H	CH_3	$N(CH_3)$-Phenyl
982	NH	H	CH_3	$N(CH_2CH_3)_2$
983	NH	H	CH_3	$N(CH_2CH_3)CH(CH_3)_2$
984	NH	H	CH_3	$N(CH_2CH_3)CH_2CH_2CH_3$
985	NH	H	CH_3	$N(CH_2CH_3)C(CH_3)_3$
986	NH	H	CH_3	$N(CH_2CH_3)CH_2CH(CH_3)_2$
987	NH	H	CH_3	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
988	NH	H	CH_3	$N(CH_2CH_3)CH_2CH_2Cl$
989	NH	H	CH_3	$N(CH_2CH_3)CH_2CH_2OCH_3$
990	NH	H	CH_3	$N(CH_2CH_3)CH_2CH_2SCH_3$
991	NH	H	CH_3	$N(CH_2CH_3)CH_2COOCH_3$
992	NH	H	CH_3	$N(CH_2CH_3)CH_2CONH_2$
993	NH	H	CH_3	$N(CH_2CH_3)CH_2CH=CH_2$
994	NH	H	CH_3	$N(CH_2CH_3)CH_2C\equiv CH$
995	NH	H	CH_3	$N(CH_2CH_3)$-Cyclopentyl
996	NH	H	CH_3	$N(CH_2CH_3)$-Cyclohexyl
997	NH	H	CH_3	$N(CH_2CH_3)$-Phenyl

	$(Y)_n$	R^1	R^2	R^4
998	NH	H	CH_3	$N(CH(CH_3)_2)_2$
999	NH	H	CH_3	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
1000	NH	H	CH_3	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
1001	NH	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2Cl$
1002	NH	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
1003	NH	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
1004	NH	H	CH_3	$N(CH(CH_3)_2)CH_2COOCH_3$
1005	NH	H	CH_3	$N(CH(CH_3)_2)CH_2CONH_2$
1006	NH	H	CH_3	$N(CH(CH_3)_2)CH_2CH=CH_2$
1007	NH	H	CH_3	$N(CH(CH_3)_2)CH_2C\equiv CH$
1008	NH	H	CH_3	$(CH(CH_3)_2)$H-Cyclopentyl
1009	NH	H	CH_3	$N(CH(CH_3)_2)$-Cyclohexyl
1010	NH	H	CH_3	$N(CH(CH_3)_2)$-Phenyl
1011	NH	H	CH_3	Morpholin-1-yl
1012	NH	H	CH_3	Piperidin-1-yl
1013	NH	CH_3	CH_3	$NH\text{-}SO_2CH_3$
1014	NH	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_3$
1015	NH	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2CH_3$
1016	NH	CH_3	CH_3	$NH\text{-}SO_2CH(CH_3)_2$
1017	NH	CH_3	CH_3	$NH\text{-}SO_2C(CH_3)_3$
1018	NH	CH_3	CH_3	$NH\text{-}SO_2CH_2Cl$
1019	NH	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2Cl$
1020	NH	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2OCH_3$
1021	NH	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2SCH_3$
1022	NH	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_3$
1023	NH	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_3$
1024	NH	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
1025	NH	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
1026	NH	CH_3	CH_3	N(CH3)-SO2C(CH3)3
1027	NH	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2Cl$
1028	NH	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
1029	NH	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$
1030	NH	CH_3	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2SCH_3$
1031	NH	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_3$
1032	NH	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_3$
1033	NH	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2CH_3$
1034	NH	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH(CH_3)_2$
1035	NH	CH_3	CH_3	N(CH2CH3)-SO2C(CH3)3
1036	NH	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2Cl$
1037	NH	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2Cl$
1038	NH	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2OCH_3$
1039	NH	CH_3	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2SCH_3$
1040	NH	CH_3	CH_3	$NH(CH_3)$
1041	NH	CH_3	CH_3	$NHCH_2CH_3$
1042	NH	CH_3	CH_3	$NHCH_2CH_2CH_3$
1043	NH	CH_3	CH_3	$NHCH(CH_3)_2$
1044	NH	CH_3	CH_3	$NHC(CH_3)_3$
1045	NH	CH_3	CH_3	$NHCH_2CH(CH_3)_2$
1046	NH	CH_3	CH_3	$NHCH(CH_3)CH_2CH_3$
1047	NH	CH_3	CH_3	$NHCH_2CH_2Cl$

	$(Y)_n$	R^1	R^2	R^4
1048	NH	CH_3	CH_3	$NHCH_2CH_2OCH_3$
1049	NH	CH_3	CH_3	$NHCH_2CH_2SCH_3$
1050	NH	CH_3	CH_3	$NHCH_2COOCH_3$
1051	NH	CH_3	CH_3	$NHCH_2CONH_2$
1052	NH	CH_3	CH_3	$NHCH_2CH=CH_2$
1053	NH	CH_3	CH_3	$NHCH_2C\equiv CH$
1054	NH	CH_3	CH_3	NH-Cyclopentyl
1055	NH	CH_3	CH_3	NH-Cyclohexyl
1056	NH	CH_3	CH_3	NH-Phenyl
1057	NH	CH_3	CH_3	$N(CH_3)_2$
1058	NH	CH_3	CH_3	$N(CH_3)CH_2CH_3$
1059	NH	CH_3	CH_3	$N(CH_3)CH(CH_3)_2$
1060	NH	CH_3	CH_3	$N(CH_3)C(CH_3)_3$
1061	NH	CH_3	CH_3	$N(CH_3)CH_2CH_2CH_3$
1062	NH	CH_3	CH_3	$N(CH_3)CH_2CH(CH_3)_2$
1063	NH	CH_3	CH_3	$N(CH_3)CH(CH_3)CH_2CH_3$
1064	NH	CH_3	CH_3	$N(CH_3)CH_2CH_2Cl$
1065	NH	CH_3	CH_3	$N(CH_3)CH_2CH_2OCH_3$
1066	NH	CH_3	CH_3	$N(CH_3)CH_2CH_2SCH_3$
1067	NH	CH_3	CH_3	$N(CH_3)CH_2COOCH_3$
1068	NH	CH_3	CH_3	$N(CH_3)CH_2CONH_2$
1069	NH	CH_3	CH_3	$N(CH_3)CH_2CH=CH_2$
1070	NH	CH_3	CH_3	$N(CH_3)CH_2C\equiv CH$
1071	NH	CH_3	CH_3	N(CH3)-Cyclopentyl
1072	NH	CH_3	CH_3	N(CH3)-Cyclohexyl
1073	NH	CH_3	CH_3	$N(CH_3)$-Phenyl
1074	NH	CH_3	CH_3	$N(CH_2CH_3)_2$
1075	NH	CH_3	CH_3	$N(CH_2CH_3)CH(CH_3)_2$
1076	NH	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2CH_3$
1077	NH	CH_3	CH_3	$N(CH_2CH_3)C(CH_3)_3$
1078	NH	CH_3	CH_3	$N(CH_2CH_3)CH_2CH(CH_3)_2$
1079	NH	CH_3	CH_3	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
1080	NH	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2Cl$
1081	NH	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2OCH_3$
1082	NH	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2SCH_3$
1083	NH	CH_3	CH_3	$N(CH_2CH_3)CH_2COOCH_3$
1084	NH	CH_3	CH_3	$N(CH_2CH_3)CH_2CONH_2$
1085	NH	CH_3	CH_3	$N(CH_2CH_3)CH_2CH=CH_2$
1086	NH	CH_3	CH_3	$N(CH_2CH_3)CH_2C\equiv CH$
1087	NH	CH_3	CH_3	$N(CH_2CH_3)$-Cyclopentyl
1088	NH	CH_3	CH_3	$N(CH_2CH_3)$-Cyclohexyl
1089	NH	CH_3	CH_3	$N(CH_2CH_3)$-Phenyl
1090	NH	CH_3	CH_3	$N(CH(CH_3)_2)_2$
1091	NH	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
1092	NH	CH_3	CH_3	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
1093	NH	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2Cl$
1094	NH	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
1095	NH	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
1096	NH	CH_3	CH_3	$N(CH(CH_3)_2)CH_2COOCH_3$
1097	NH	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CONH_2$

	$(Y)_n$	R^1	R^2	R^4
1098	NH	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH=CH_2$
1099	NH	CH_3	CH_3	$N(CH(CH_3)_2)CH_2C\equiv CH$
1100	NH	CH_3	CH_3	$(CH(CH_3)_2)$H-Cyclopentyl
1101	NH	CH_3	CH_3	$N(CH(CH_3)_2)$-Cyclohexyl
1102	NH	CH_3	CH_3	$N(CH(CH_3)_2)$-Phenyl
1103	NH	CH_3	CH_3	Morpholin-1-yl
1104	NH	CH_3	CH_3	Piperidin-1-yl
1105	NCH_3	H	H	$NH\text{-}SO_2CH_3$
1106	NCH_3	H	H	$NH\text{-}SO_2CH_2CH_3$
1107	NCH_3	H	H	$NH\text{-}SO_2CH_2CH_2CH_3$
1108	NCH_3	H	H	$NH\text{-}SO_2CH(CH_3)_2$
1109	NCH_3	H	H	$NH\text{-}SO_2C(CH_3)_3$
1110	NCH_3	H	H	$NH\text{-}SO_2CH_2Cl$
1111	NCH_3	H	H	$NH\text{-}SO_2CH_2CH_2Cl$
1112	NCH_3	H	H	$NH\text{-}SO_2CH_2CH_2OCH_3$
1113	NCH_3	H	H	$NH\text{-}SO_2CH_2CH_2SCH_3$
1114	NCH_3	H	H	$N(CH_3)\text{-}SO_2CH_3$
1115	NCH_3	H	H	$N(CH_3)\text{-}SO_2CH_2CH_3$
1116	NCH_3	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
1117	NCH_3	H	H	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
1118	NCH_3	H	H	N(CH3)-SO2C(CH3)3
1119	NCH_3	H	H	$N(CH_3)\text{-}SO_2CH_2Cl$
1120	NCH_3	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
1121	NCH_3	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$
1122	NCH_3	H	H	$N(CH_3)\text{-}SO_2CH_2CH_2SCH_3$
1123	NCH_3	H	H	$N(CH_2CH_3)\text{-}SO_2CH_3$
1124	NCH_3	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_3$
1125	NCH_3	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2CH_3$
1126	NCH_3	H	H	$N(CH_2CH_3)\text{-}SO_2CH(CH_3)_2$
1127	NCH_3	H	H	N(CH2CH3)-SO2C(CH3)3
1128	NCH_3	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2Cl$
1129	NCH_3	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2Cl$
1130	NCH_3	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2OCH_3$
1131	NCH_3	H	H	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2SCH_3$
1132	NCH_3	H	H	$NH(CH_3)$
1133	NCH_3	H	H	$NHCH_2CH_3$
1134	NCH_3	H	H	$NHCH_2CH_2CH_3$
1135	NCH_3	H	H	$NHCH(CH_3)_2$
1136	NCH_3	H	H	$NHC(CH_3)_3$
1137	NCH_3	H	H	$NHCH_2CH(CH_3)_2$
1138	NCH_3	H	H	$NHCH(CH_3)CH_2CH_3$
1139	NCH_3	H	H	$NHCH_2CH_2Cl$
1140	NCH_3	H	H	$NHCH_2CH_2OCH_3$
1141	NCH_3	H	H	$NHCH_2CH_2SCH_3$
1142	NCH_3	H	H	$NHCH_2COOCH_3$
1143	NCH_3	H	H	$NHCH_2CONH_2$
1144	NCH_3	H	H	$NHCH_2CH=CH_2$
1145	NCH_3	H	H	$NHCH_2C\equiv CH$
1146	NCH_3	H	H	NH-Cyclopentyl
1147	NCH_3	H	H	NH-Cyclohexyl

	$(Y)_n$	R^1	R^2	R^4
1148	NCH_3	H	H	NH-Phenyl
1149	NCH_3	H	H	$N(CH_3)_2$
1150	NCH_3	H	H	$N(CH_3)CH_2CH_3$
1151	NCH_3	H	H	$N(CH_3)CH(CH_3)_2$
1152	NCH_3	H	H	$N(CH_3)C(CH_3)_3$
1153	NCH_3	H	H	$N(CH_3)CH_2CH_2CH_3$
1154	NCH_3	H	H	$N(CH_3)CH_2CH(CH_3)_2$
1155	NCH_3	H	H	$N(CH_3)CH(CH_3)CH_2CH_3$
1156	NCH_3	H	H	$N(CH_3)CH_2CH_2Cl$
1157	NCH_3	H	H	$N(CH_3)CH_2CH_2OCH_3$
1158	NCH_3	H	H	$N(CH_3)CH_2CH_2SCH_3$
1159	NCH_3	H	H	$N(CH_3)CH_2COOCH_3$
1160	NCH_3	H	H	$N(CH_3)CH_2CONH_2$
1161	NCH_3	H	H	$N(CH_3)CH_2CH=CH_2$
1162	NCH_3	H	H	$N(CH_3)CH_2C\equiv CH$
1163	NCH_3	H	H	N(CH3)-Cyclopentyl
1164	NCH_3	H	H	N(CH3)-Cyclohexyl
1165	NCH_3	H	H	$N(CH_3)$-Phenyl
1166	NCH_3	H	H	$N(CH_2CH_3)_2$
1167	NCH_3	H	H	$N(CH_2CH_3)CH(CH_3)_2$
1168	NCH_3	H	H	$N(CH_2CH_3)CH_2CH_2CH_3$
1169	NCH_3	H	H	$N(CH_2CH_3)C(CH_3)_3$
1170	NCH_3	H	H	$N(CH_2CH_3)CH_2CH(CH_3)_2$
1171	NCH_3	H	H	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
1172	NCH_3	H	H	$N(CH_2CH_3)CH_2CH_2Cl$
1173	NCH_3	H	H	$N(CH_2CH_3)CH_2CH_2OCH_3$
1174	NCH_3	H	H	$N(CH_2CH_3)CH_2CH_2SCH_3$
1175	NCH_3	H	H	$N(CH_2CH_3)CH_2COOCH_3$
1176	NCH_3	H	H	$N(CH_2CH_3)CH_2CONH_2$
1177	NCH_3	H	H	$N(CH_2CH_3)CH_2CH=CH_2$
1178	NCH_3	H	H	$N(CH_2CH_3)CH_2C\equiv CH$
1179	NCH_3	H	H	$N(CH_2CH_3)$-Cyclopentyl
1180	NCH_3	H	H	$N(CH_2CH_3)$-Cyclohexyl
1181	NCH_3	H	H	$N(CH_2CH_3)$-Phenyl
1182	NCH_3	H	H	$N(CH(CH_3)_2)_2$
1183	NCH_3	H	H	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
1184	NCH_3	H	H	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
1185	NCH_3	H	H	$N(CH(CH_3)_2)CH_2CH_2Cl$
1186	NCH_3	H	H	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
1187	NCH_3	H	H	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
1188	NCH_3	H	H	$N(CH(CH_3)_2)CH_2COOCH_3$
1189	NCH_3	H	H	$N(CH(CH_3)_2)CH_2CONH_2$
1190	NCH_3	H	H	$N(CH(CH_3)_2)CH_2CH=CH_2$
1191	NCH_3	H	H	$N(CH(CH_3)_2)CH_2C\equiv CH$
1192	NCH_3	H	H	$(CH(CH_3)_2)$H-Cyclopentyl
1193	NCH_3	H	H	$N(CH(CH_3)_2)$-Cyclohexyl
1194	NCH_3	H	H	$N(CH(CH_3)_2)$-Phenyl
1195	NCH_3	H	H	Morpholin-1-yl
1196	NCH_3	H	H	Piperidin-1-yl
1197	NCH_3	H	CH_3	$NH\text{-}SO_2CH_3$

	$(Y)_n$	R^1	R^2	R^4
1198	NCH_3	H	CH_3	$NH\text{-}SO_2CH_2CH_3$
1199	NCH_3	H	CH_3	$NH\text{-}SO_2CH_2CH_2CH_3$
1200	NCH_3	H	CH_3	$NH\text{-}SO_2CH(CH_3)_2$
1201	NCH_3	H	CH_3	$NH\text{-}SO_2C(CH_3)_3$
1202	NCH_3	H	CH_3	$NH\text{-}SO_2CH_2Cl$
1203	NCH_3	H	CH_3	$NH\text{-}SO_2CH_2CH_2Cl$
1204	NCH_3	H	CH_3	$NH\text{-}SO_2CH_2CH_2OCH_3$
1205	NCH_3	H	CH_3	$NH\text{-}SO_2CH_2CH_2SCH_3$
1206	NCH_3	H	CH_3	$N(CH_3)\text{-}SO_2CH_3$
1207	NCH_3	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_3$
1208	NCH_3	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
1209	NCH_3	H	CH_3	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
1210	NCH_3	H	CH_3	$N(CH_3)\text{-}SO_2C(CH_3)_3$
1211	NCH_3	H	CH_3	$N(CH_3)\text{-}SO_2CH_2Cl$
1212	NCH_3	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
1213	NCH_3	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$
1214	NCH_3	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2SCH_3$
1215	NCH_3	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_3$
1216	NCH_3	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_3$
1217	NCH_3	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2CH_3$
1218	NCH_3	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH(CH_3)_2$
1219	NCH_3	H	CH_3	$N(CH_2CH_3)\text{-}SO_2C(CH_3)_3$
1220	NCH_3	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2Cl$
1221	NCH_3	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2Cl$
1222	NCH_3	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2OCH_3$
1223	NCH_3	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2SCH_3$
1224	NCH_3	H	CH_3	$NH(CH_3)$
1225	NCH_3	H	CH_3	$NHCH_2CH_3$
1226	NCH_3	H	CH_3	$NHCH_2CH_2CH_3$
1227	NCH_3	H	CH_3	$NHCH(CH_3)_2$
1228	NCH_3	H	CH_3	$NHC(CH_3)_3$
1229	NCH_3	H	CH_3	$NHCH_2CH(CH_3)_2$
1230	NCH_3	H	CH_3	$NHCH(CH_3)CH_2CH_3$
1231	NCH_3	H	CH_3	$NHCH_2CH_2Cl$
1232	NCH_3	H	CH_3	$NHCH_2CH_2OCH_3$
1233	NCH_3	H	CH_3	$NHCH_2CH_2SCH_3$
1234	NCH_3	H	CH_3	$NHCH_2COOCH_3$
1235	NCH_3	H	CH_3	$NHCH_2CONH_2$
1236	NCH_3	H	CH_3	$NHCH_2CH{=}CH_2$
1237	NCH_3	H	CH_3	$NHCH_2C{\equiv}CH$
1238	NCH_3	H	CH_3	NH-Cyclopentyl
1239	NCH_3	H	CH_3	NH-Cyclohexyl
1240	NCH_3	H	CH_3	NH-Phenyl
1241	NCH_3	H	CH_3	$N(CH_3)_2$
1242	NCH_3	H	CH_3	$N(CH_3)CH_2CH_3$
1243	NCH_3	H	CH_3	$N(CH_3)CH(CH_3)_2$
1244	NCH_3	H	CH_3	$N(CH_3)C(CH_3)_3$
1245	NCH_3	H	CH_3	$N(CH_3)CH_2CH_2CH_3$
1246	NCH_3	H	CH_3	$N(CH_3)CH_2CH(CH_3)_2$
1247	NCH_3	H	CH_3	$N(CH_3)CH(CH_3)CH_2CH_3$

	$(Y)_n$	R^1	R^2	R^4
1248	NCH_3	H	CH_3	$N(CH_3)CH_2CH_2Cl$
1249	NCH_3	H	CH_3	$N(CH_3)CH_2CH_2OCH_3$
1250	NCH_3	H	CH_3	$N(CH_3)CH_2CH_2SCH_3$
1251	NCH_3	H	CH_3	$N(CH_3)CH_2COOCH_3$
1252	NCH_3	H	CH_3	$N(CH_3)CH_2CONH_2$
1253	NCH_3	H	CH_3	$N(CH_3)CH_2CH=CH_2$
1254	NCH_3	H	CH_3	$N(CH_3)CH_2C\equiv CH$
1255	NCH_3	H	CH_3	N(CH3)-Cyclopentyl
1256	NCH_3	H	CH_3	N(CH3)-Cyclohexyl
1257	NCH_3	H	CH_3	$N(CH_3)$-Phenyl
1258	NCH_3	H	CH_3	$N(CH_2CH_3)_2$
1259	NCH_3	H	CH_3	$N(CH_2CH_3)CH(CH_3)_2$
1260	NCH_3	H	CH_3	$N(CH_2CH_3)CH_2CH_2CH_3$
1261	NCH_3	H	CH_3	$N(CH_2CH_3)C(CH_3)_3$
1262	NCH_3	H	CH_3	$N(CH_2CH_3)CH_2CH(CH_3)_2$
1263	NCH_3	H	CH_3	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
1264	NCH_3	H	CH_3	$N(CH_2CH_3)CH_2CH_2Cl$
1265	NCH_3	H	CH_3	$N(CH_2CH_3)CH_2CH_2OCH_3$
1266	NCH_3	H	CH_3	$N(CH_2CH_3)CH_2CH_2SCH_3$
1267	NCH_3	H	CH_3	$N(CH_2CH_3)CH_2COOCH_3$
1268	NCH_3	H	CH_3	$N(CH_2CH_3)CH_2CONH_2$
1269	NCH_3	H	CH_3	$N(CH_2CH_3)CH_2CH=CH_2$
1270	NCH_3	H	CH_3	$N(CH_2CH_3)CH_2C\equiv CH$
1271	NCH_3	H	CH_3	$N(CH_2CH_3)$-Cyclopentyl
1272	NCH_3	H	CH_3	$N(CH_2CH_3)$-Cyclohexyl
1273	NCH_3	H	CH_3	$N(CH_2CH_3)$-Phenyl
1274	NCH_3	H	CH_3	$N(CH(CH_3)_2)_2$
1275	NCH_3	H	CH_3	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
1276	NCH_3	H	CH_3	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
1277	NCH_3	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2Cl$
1278	NCH_3	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
1279	NCH_3	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
1280	NCH_3	H	CH_3	$N(CH(CH_3)_2)CH_2COOCH_3$
1281	NCH_3	H	CH_3	$N(CH(CH_3)_2)CH_2CONH_2$
1282	NCH_3	H	CH_3	$N(CH(CH_3)_2)CH_2CH=CH_2$
1283	NCH_3	H	CH_3	$N(CH(CH_3)_2)CH_2C\equiv CH$
1284	NCH_3	H	CH_3	$(CH(CH_3)_2)$H-Cyclopentyl
1285	NCH_3	H	CH_3	$N(CH(CH_3)_2)$-Cyclohexyl
1286	NCH_3	H	CH_3	$N(CH(CH_3)_2)$-Phenyl
1287	NCH_3	H	CH_3	Morpholin-1-yl
1288	NCH_3	H	CH_3	Piperidin-1-yl
1289	NCH_3	CH_3	CH_3	$NH\text{-}SO_2CH_3$
1290	NCH_3	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_3$
1291	NCH_3	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2CH_3$
1292	NCH_3	CH_3	CH_3	$NH\text{-}SO_2CH(CH_3)_2$
1293	NCH_3	CH_3	CH_3	$NH\text{-}SO_2C(CH_3)_3$
1294	NCH_3	CH_3	CH_3	$NH\text{-}SO_2CH_2Cl$
1295	NCH_3	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2Cl$
1296	NCH_3	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2OCH_3$
1297	NCH_3	CH_3	CH_3	$NH\text{-}SO_2CH_2CH_2SCH_3$

	$(Y)_n$	R^1	R^2	R^4
1298	NCH_3	CH_3	CH_3	$N(CH_3)$-SO_2CH_3
1299	NCH_3	CH_3	CH_3	$N(CH_3)$-$SO_2CH_2CH_3$
1300	NCH_3	CH_3	CH_3	$N(CH_3)$-$SO_2CH_2CH_2CH_3$
1301	NCH_3	CH_3	CH_3	$N(CH_3)$-$SO_2CH(CH_3)_2$
1302	NCH_3	CH_3	CH_3	$N(CH_3)$-$SO_2C(CH_3)_3$
1303	NCH_3	CH_3	CH_3	$N(CH_3)$-SO_2CH_2Cl
1304	NCH_3	CH_3	CH_3	$N(CH_3)$-$SO_2CH_2CH_2Cl$
1305	NCH_3	CH_3	CH_3	$N(CH_3)$-$SO_2CH_2CH_2OCH_3$
1306	NCH_3	CH_3	CH_3	$N(CH_3)$-$SO_2CH_2CH_2SCH_3$
1307	NCH_3	CH_3	CH_3	$N(CH_2CH_3)$-SO_2CH_3
1308	NCH_3	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_3$
1309	NCH_3	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_2CH_3$
1310	NCH_3	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH(CH_3)_2$
1311	NCH_3	CH_3	CH_3	N(CH2CH3)-SO2C(CH3)3
1312	NCH_3	CH_3	CH_3	$N(CH_2CH_3)$-SO_2CH_2Cl
1313	NCH_3	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_2Cl$
1314	NCH_3	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_2OCH_3$
1315	NCH_3	CH_3	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_2SCH_3$
1316	NCH_3	CH_3	CH_3	$NH(CH_3)$
1317	NCH_3	CH_3	CH_3	$NHCH_2CH_3$
1318	NCH_3	CH_3	CH_3	$NHCH_2CH_2CH_3$
1319	NCH_3	CH_3	CH_3	$NHCH(CH_3)_2$
1320	NCH_3	CH_3	CH_3	$NHC(CH_3)_3$
1321	NCH_3	CH_3	CH_3	$NHCH_2CH(CH_3)_2$
1322	NCH_3	CH_3	CH_3	$NHCH(CH_3)CH_2CH_3$
1323	NCH_3	CH_3	CH_3	$NHCH_2CH_2Cl$
1324	NCH_3	CH_3	CH_3	$NHCH_2CH_2OCH_3$
1325	NCH_3	CH_3	CH_3	$NHCH_2CH_2SCH_3$
1326	NCH_3	CH_3	CH_3	$NHCH_2COOCH_3$
1327	NCH_3	CH_3	CH_3	$NHCH_2CONH_2$
1328	NCH_3	CH_3	CH_3	$NHCH_2CH=CH_2$
1329	NCH_3	CH_3	CH_3	$NHCH_2C\equiv CH$
1330	NCH_3	CH_3	CH_3	NH-Cyclopentyl
1331	NCH_3	CH_3	CH_3	NH-Cyclohexyl
1332	NCH_3	CH_3	CH_3	NH-Phenyl
1333	NCH_3	CH_3	CH_3	$N(CH_3)_2$
1334	NCH_3	CH_3	CH_3	$N(CH_3)CH_2CH_3$
1335	NCH_3	CH_3	CH_3	$N(CH_3)CH(CH_3)_2$
1336	NCH_3	CH_3	CH_3	$N(CH_3)C(CH_3)_3$
1337	NCH_3	CH_3	CH_3	$N(CH_3)CH_2CH_2CH_3$
1338	NCH_3	CH_3	CH_3	$N(CH_3)CH_2CH(CH_3)_2$
1339	NCH_3	CH_3	CH_3	$N(CH_3)CH(CH_3)CH_2CH_3$
1340	NCH_3	CH_3	CH_3	$N(CH_3)CH_2CH_2Cl$
1341	NCH_3	CH_3	CH_3	$N(CH_3)CH_2CH_2OCH_3$
1342	NCH_3	CH_3	CH_3	$N(CH_3)CH_2CH_2SCH_3$
1343	NCH_3	CH_3	CH_3	$N(CH_3)CH_2COOCH_3$
1344	NCH_3	CH_3	CH_3	$N(CH_3)CH_2CONH_2$
1345	NCH_3	CH_3	CH_3	$N(CH_3)CH_2CH=CH_2$
1346	NCH_3	CH_3	CH_3	$N(CH_3)CH_2C\equiv CH$
1347	NCH_3	CH_3	CH_3	N(CH3)-Cyclopentyl

	$(Y)_n$	R^1	R^2	R^4
1348	NCH_3	CH_3	CH_3	N(CH3)-Cyclohexyl
1349	NCH_3	CH_3	CH_3	$N(CH_3)$-Phenyl
1350	NCH_3	CH_3	CH_3	$N(CH_2CH_3)_2$
1351	NCH_3	CH_3	CH_3	$N(CH_2CH_3)CH(CH_3)_2$
1352	NCH_3	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2CH_3$
1353	NCH_3	CH_3	CH_3	$N(CH_2CH_3)C(CH_3)_3$
1354	NCH_3	CH_3	CH_3	$N(CH_2CH_3)CH_2CH(CH_3)_2$
1355	NCH_3	CH_3	CH_3	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
1356	NCH_3	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2Cl$
1357	NCH_3	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2OCH_3$
1358	NCH_3	CH_3	CH_3	$N(CH_2CH_3)CH_2CH_2SCH_3$
1359	NCH_3	CH_3	CH_3	$N(CH_2CH_3)CH_2COOCH_3$
1360	NCH_3	CH_3	CH_3	$N(CH_2CH_3)CH_2CONH_2$
1361	NCH_3	CH_3	CH_3	$N(CH_2CH_3)CH_2CH=CH_2$
1362	NCH_3	CH_3	CH_3	$N(CH_2CH_3)CH_2C\equiv CH$
1363	NCH_3	CH_3	CH_3	$N(CH_2CH_3)$-Cyclopentyl
1364	NCH_3	CH_3	CH_3	$N(CH_2CH_3)$-Cyclohexyl
1365	NCH_3	CH_3	CH_3	$N(CH_2CH_3)$-Phenyl
1366	NCH_3	CH_3	CH_3	$N(CH(CH_3)_2)_2$
1367	NCH_3	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
1368	NCH_3	CH_3	CH_3	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
1369	NCH_3	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2Cl$
1370	NCH_3	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
1371	NCH_3	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
1372	NCH_3	CH_3	CH_3	$N(CH(CH_3)_2)CH_2COOCH_3$
1373	NCH_3	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CONH_2$
1374	NCH_3	CH_3	CH_3	$N(CH(CH_3)_2)CH_2CH=CH_2$
1375	NCH_3	CH_3	CH_3	$N(CH(CH_3)_2)CH_2C\equiv CH$
1376	NCH_3	CH_3	CH_3	$(CH(CH_3)_2)$H-Cyclopentyl
1377	NCH_3	CH_3	CH_3	$N(CH(CH_3)_2)$-Cyclohexyl
1378	NCH_3	CH_3	CH_3	$N(CH(CH_3)_2)$-Phenyl
1379	NCH_3	CH_3	CH_3	Morpholin-1-yl
1380	NCH_3	CH_3	CH_3	Piperidin-1-yl
1381	CH_2	H	Cl	$NH\text{-}SO_2CH_3$
1382	CH_2	H	Cl	$NH\text{-}SO_2CH_2CH_3$
1383	CH_2	H	Cl	$NH\text{-}SO_2CH_2CH_2CH_3$
1384	CH_2	H	Cl	$NH\text{-}SO_2CH(CH_3)_2$
1385	CH_2	H	Cl	$NH\text{-}SO_2C(CH_3)_3$
1386	CH_2	H	Cl	$NH\text{-}SO_2CH_2Cl$
1387	CH_2	H	Cl	$NH\text{-}SO_2CH_2CH_2Cl$
1388	CH_2	H	Cl	$NH\text{-}SO_2CH_2CH_2OCH_3$
1389	CH_2	H	Cl	$NH\text{-}SO_2CH_2CH_2SCH_3$
1390	CH_2	H	Cl	$N(CH_3)\text{-}SO_2CH_3$
1391	CH_2	H	Cl	$N(CH_3)\text{-}SO_2CH_2CH_3$
1392	CH_2	H	Cl	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
1393	CH_2	H	Cl	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
1394	CH_2	H	Cl	$N(CH_3)\text{-}SO_2C(CH_3)_3$
1395	CH_2	H	Cl	$N(CH_3)\text{-}SO_2CH_2Cl$
1396	CH_2	H	Cl	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
1397	CH_2	H	Cl	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$

	$(Y)_n$	R^1	R^2	R^4
1398	CH_2	H	Cl	$N(CH_3)$-$SO_2CH_2CH_2SCH_3$
1399	CH_2	H	Cl	$N(CH_2CH_3)$-SO_2CH_3
1400	CH_2	H	Cl	$N(CH_2CH_3)$-$SO_2CH_2CH_3$
1401	CH_2	H	Cl	$N(CH_2CH_3)$-$SO_2CH_2CH_2CH_3$
1402	CH_2	H	Cl	$N(CH_2CH_3)$-$SO_2CH(CH_3)_2$
1403	CH_2	H	Cl	$N(CH_2CH_3)$-$SO_2C(CH_3)_3$
1404	CH_2	H	Cl	$N(CH_2CH_3)$-SO_2CH_2Cl
1405	CH_2	H	Cl	$N(CH_2CH_3)$-$SO_2CH_2CH_2Cl$
1406	CH_2	H	Cl	$N(CH_2CH_3)$-$SO_2CH_2CH_2OCH_3$
1407	CH_2	H	Cl	$N(CH_2CH_3)$-$SO_2CH_2CH_2SCH_3$
1408	CH_2	H	Cl	$NH(CH_3)$
1409	CH_2	H	Cl	$NHCH_2CH_3$
1410	CH_2	H	Cl	$NHCH_2CH_2CH_3$
1411	CH_2	H	Cl	$NHCH(CH_3)_2$
1412	CH_2	H	Cl	$NHC(CH_3)_3$
1413	CH_2	H	Cl	$NHCH_2CH(CH_3)_2$
1414	CH_2	H	Cl	$NHCH(CH_3)CH_2CH_3$
1415	CH_2	H	Cl	$NHCH_2CH_2Cl$
1416	CH_2	H	Cl	$NHCH_2CH_2OCH_3$
1417	CH_2	H	Cl	$NHCH_2CH_2SCH_3$
1418	CH_2	H	Cl	$NHCH_2COOCH_3$
1419	CH_2	H	Cl	$NHCH_2CONH_2$
1420	CH_2	H	Cl	$NHCH_2CH=CH_2$
1421	CH_2	H	Cl	$NHCH_2C\equiv CH$
1422	CH_2	H	Cl	NH-Cyclopentyl
1423	CH_2	H	Cl	NH-Cyclohexyl
1424	CH_2	H	Cl	NH-Phenyl
1425	CH_2	H	Cl	$N(CH_3)_2$
1426	CH_2	H	Cl	$N(CH_3)CH_2CH_3$
1427	CH_2	H	Cl	$N(CH_3)CH(CH_3)_2$
1428	CH_2	H	Cl	$N(CH_3)C(CH_3)_3$
1429	CH_2	H	Cl	$N(CH_3)CH_2CH_2CH_3$
1430	CH_2	H	Cl	$N(CH_3)CH_2CH(CH_3)_2$
1431	CH_2	H	Cl	$N(CH_3)CH(CH_3)CH_2CH_3$
1432	CH_2	H	Cl	$N(CH_3)CH_2CH_2Cl$
1433	CH_2	H	Cl	$N(CH_3)CH_2CH_2OCH_3$
1434	CH_2	H	Cl	$N(CH_3)CH_2CH_2SCH_3$
1435	CH_2	H	Cl	$N(CH_3)CH_2COOCH_3$
1436	CH_2	H	Cl	$N(CH_3)CH_2CONH_2$
1437	CH_2	H	Cl	$N(CH_3)CH_2CH=CH_2$
1438	CH_2	H	Cl	$N(CH_3)CH_2C\equiv CH$
1439	CH_2	H	Cl	N(CH3)-Cyclopentyl
1440	CH_2	H	Cl	N(CH3)-Cyclohexyl
1441	CH_2	H	Cl	$N(CH_3)$-Phenyl
1442	CH_2	H	Cl	$N(CH_2CH_3)_2$
1443	CH_2	H	Cl	$N(CH_2CH_3)CH(CH_3)_2$
1444	CH_2	H	Cl	$N(CH_2CH_3)CH_2CH_2CH_3$
1445	CH_2	H	Cl	$N(CH_2CH_3)C(CH_3)_3$
1446	CH_2	H	Cl	$N(CH_2CH_3)CH_2CH(CH_3)_2$
1447	CH_2	H	Cl	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$

	$(Y)_n$	R^1	R^2	R^4
1448	CH_2	H	Cl	$N(CH_2CH_3)CH_2CH_2Cl$
1449	CH_2	H	Cl	$N(CH_2CH_3)CH_2CH_2OCH_3$
1450	CH_2	H	Cl	$N(CH_2CH_3)CH_2CH_2SCH_3$
1451	CH_2	H	Cl	$N(CH_2CH_3)CH_2COOCH_3$
1452	CH_2	H	Cl	$N(CH_2CH_3)CH_2CONH_2$
1453	CH_2	H	Cl	$N(CH_2CH_3)CH_2CH=CH_2$
1454	CH_2	H	Cl	$N(CH_2CH_3)CH_2C\equiv CH$
1455	CH_2	H	Cl	$N(CH_2CH_3)$-Cyclopentyl
1456	CH_2	H	Cl	$N(CH_2CH_3)$-Cyclohexyl
1457	CH_2	H	Cl	$N(CH_2CH_3)$-Phenyl
1458	CH_2	H	Cl	$N(CH(CH_3)_2)_2$
1459	CH_2	H	Cl	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
1460	CH_2	H	Cl	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
1461	CH_2	H	Cl	$N(CH(CH_3)_2)CH_2CH_2Cl$
1462	CH_2	H	Cl	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
1463	CH_2	H	Cl	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
1464	CH_2	H	Cl	$N(CH(CH_3)_2)CH_2COOCH_3$
1465	CH_2	H	Cl	$N(CH(CH_3)_2)CH_2CONH_2$
1466	CH_2	H	Cl	$N(CH(CH_3)_2)CH_2CH=CH_2$
1467	CH_2	H	Cl	$N(CH(CH_3)_2)CH_2C\equiv CH$
1468	CH_2	H	Cl	$(CH(CH_3)_2)$H-Cyclopentyl
1469	CH_2	H	Cl	$N(CH(CH_3)_2)$-Cyclohexyl
1470	CH_2	H	Cl	$N(CH(CH_3)_2)$-Phenyl
1471	CH_2	H	Cl	Morpholin-1-yl
1472	CH_2	H	Cl	Piperidin-1-yl
1473	CH_2	H	CH_3	$NH\text{-}SO_2CH_3$
1474	CH_2	H	CH_3	$NH\text{-}SO_2CH_2CH_3$
1475	CH_2	H	CH_3	$NH\text{-}SO_2CH_2CH_2CH_3$
1476	CH_2	H	CH_3	$NH\text{-}SO_2CH(CH_3)_2$
1477	CH_2	H	CH_3	$NH\text{-}SO_2C(CH_3)_3$
1478	CH_2	H	CH_3	$NH\text{-}SO_2CH_2Cl$
1479	CH_2	H	CH_3	$NH\text{-}SO_2CH_2CH_2Cl$
1480	CH_2	H	CH_3	$NH\text{-}SO_2CH_2CH_2OCH_3$
1481	CH_2	H	CH_3	$NH\text{-}SO_2CH_2CH_2SCH_3$
1482	CH_2	H	CH_3	$N(CH_3)\text{-}SO_2CH_3$
1483	CH_2	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_3$
1484	CH_2	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
1485	CH_2	H	CH_3	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
1486	CH_2	H	CH_3	$N(CH_3)\text{-}SO_2C(CH_3)_3$
1487	CH_2	H	CH_3	$N(CH_3)\text{-}SO_2CH_2Cl$
1488	CH_2	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
1489	CH_2	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$
1490	CH_2	H	CH_3	$N(CH_3)\text{-}SO_2CH_2CH_2SCH_3$
1491	CH_2	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_3$
1492	CH_2	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_3$
1493	CH_2	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2CH_3$
1494	CH_2	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH(CH_3)_2$
1495	CH_2	H	CH_3	$N(CH_2CH_3)\text{-}SO_2C(CH_3)_3$
1496	CH_2	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2Cl$
1497	CH_2	H	CH_3	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2Cl$

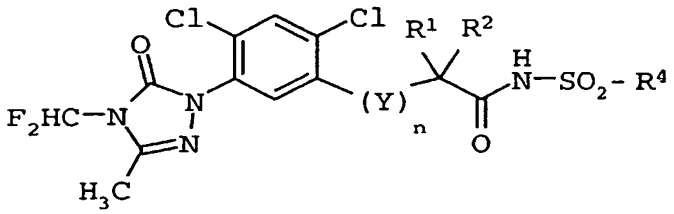
	$(Y)_n$	R^1	R^2	R^4
1498	CH_2	H	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_2OCH_3$
1499	CH_2	H	CH_3	$N(CH_2CH_3)$-$SO_2CH_2CH_2SCH_3$
1500	CH_2	H	CH_3	$NH(CH_3)$
1501	CH_2	H	CH_3	$NHCH_2CH_3$
1502	CH_2	H	CH_3	$NHCH_2CH_2CH_3$
1503	CH_2	H	CH_3	$NHCH(CH_3)_2$
1504	CH_2	H	CH_3	$NHC(CH_3)_3$
1505	CH_2	H	CH_3	$NHCH_2CH(CH_3)_2$
1506	CH_2	H	CH_3	$NHCH(CH_3)CH_2CH_3$
1507	CH_2	H	CH_3	$NHCH_2CH_2Cl$
1508	CH_2	H	CH_3	$NHCH_2CH_2OCH_3$
1509	CH_2	H	CH_3	$NHCH_2CH_2SCH_3$
1510	CH_2	H	CH_3	$NHCH_2COOCH_3$
1511	CH_2	H	CH_3	$NHCH_2CONH_2$
1512	CH_2	H	CH_3	$NHCH_2CH=CH_2$
1513	CH_2	H	CH_3	$NHCH_2C\equiv CH$
1514	CH_2	H	CH_3	NH-Cyclopentyl
1515	CH_2	H	CH_3	NH-Cyclohexyl
1516	CH_2	H	CH_3	NH-Phenyl
1517	CH_2	H	CH_3	$N(CH_3)_2$
1518	CH_2	H	CH_3	$N(CH_3)CH_2CH_3$
1519	CH_2	H	CH_3	$N(CH_3)CH(CH_3)_2$
1520	CH_2	H	CH_3	$N(CH_3)C(CH_3)_3$
1521	CH_2	H	CH_3	$N(CH_3)CH_2CH_2CH_3$
1522	CH_2	H	CH_3	$N(CH_3)CH_2CH(CH_3)_2$
1523	CH_2	H	CH_3	$N(CH_3)CH(CH_3)CH_2CH_3$
1524	CH_2	H	CH_3	$N(CH_3)CH_2CH_2Cl$
1525	CH_2	H	CH_3	$N(CH_3)CH_2CH_2OCH_3$
1526	CH_2	H	CH_3	$N(CH_3)CH_2CH_2SCH_3$
1527	CH_2	H	CH_3	$N(CH_3)CH_2COOCH_3$
1528	CH_2	H	CH_3	$N(CH_3)CH_2CONH_2$
1529	CH_2	H	CH_3	$N(CH_3)CH_2CH=CH_2$
1530	CH_2	H	CH_3	$N(CH_3)CH_2C\equiv CH$
1531	CH_2	H	CH_3	N(CH3)-Cyclopentyl
1532	CH_2	H	CH_3	N(CH3)-Cyclohexyl
1533	CH_2	H	CH_3	$N(CH_3)$-Phenyl
1534	CH_2	H	CH_3	$N(CH_2CH_3)_2$
1535	CH_2	H	CH_3	$N(CH_2CH_3)CH(CH_3)_2$
1536	CH_2	H	CH_3	$N(CH_2CH_3)CH_2CH_2CH_3$
1537	CH_2	H	CH_3	$N(CH_2CH_3)C(CH_3)_3$
1538	CH_2	H	CH_3	$N(CH_2CH_3)CH_2CH(CH_3)_2$
1539	CH_2	H	CH_3	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
1540	CH_2	H	CH_3	$N(CH_2CH_3)CH_2CH_2Cl$
1541	CH_2	H	CH_3	$N(CH_2CH_3)CH_2CH_2OCH_3$
1542	CH_2	H	CH_3	$N(CH_2CH_3)CH_2CH_2SCH_3$
1543	CH_2	H	CH_3	$N(CH_2CH_3)CH_2COOCH_3$
1544	CH_2	H	CH_3	$N(CH_2CH_3)CH_2CONH_2$
1545	CH_2	H	CH_3	$N(CH_2CH_3)CH_2CH=CH_2$
1546	CH_2	H	CH_3	$N(CH_2CH_3)CH_2C\equiv CH$
1547	CH_2	H	CH_3	$N(CH_2CH_3)$-Cyclopentyl

	$(Y)_n$	R^1	R^2	R^4
1548	CH_2	H	CH_3	$N(CH_2CH_3)$-Cyclohexyl
1549	CH_2	H	CH_3	$N(CH_2CH_3)$-Phenyl
1550	CH_2	H	CH_3	$N(CH(CH_3)_2)_2$
1551	CH_2	H	CH_3	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
1552	CH_2	H	CH_3	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
1553	CH_2	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2Cl$
1554	CH_2	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
1555	CH_2	H	CH_3	$N(CH(CH_3)_2)CH_2CH_2SCH_3$
1556	CH_2	H	CH_3	$N(CH(CH_3)_2)CH_2COOCH_3$
1557	CH_2	H	CH_3	$N(CH(CH_3)_2)CH_2CONH_2$
1558	CH_2	H	CH_3	$N(CH(CH_3)_2)CH_2CH=CH_2$
1559	CH_2	H	CH_3	$N(CH(CH_3)_2)CH_2C\equiv CH$
1560	CH_2	H	CH_3	$(CH(CH_3)_2)H$-Cyclopentyl
1561	CH_2	H	CH_3	$N(CH(CH_3)_2)$-Cyclohexyl
1562	CH_2	H	CH_3	$N(CH(CH_3)_2)$-Phenyl
1563	CH_2	H	CH_3	Morpholin-1-yl
1564	CH_2	H	CH_3	Piperidin-1-yl
1565	CH	=	Cl	$NH\text{-}SO_2CH_3$
1566	CH	=	Cl	$NH\text{-}SO_2CH_2CH_3$
1567	CH	=	Cl	$NH\text{-}SO_2CH_2CH_2CH_3$
1568	CH	=	Cl	$NH\text{-}SO_2CH(CH_3)_2$
1569	CH	=	Cl	$NH\text{-}SO_2C(CH_3)_3$
1570	CH	=	Cl	$NH\text{-}SO_2CH_2Cl$
1571	CH	=	Cl	$NH\text{-}SO_2CH_2CH_2Cl$
1572	CH	=	Cl	$NH\text{-}SO_2CH_2CH_2OCH_3$
1573	CH	=	Cl	$NH\text{-}SO_2CH_2CH_2SCH_3$
1574	CH	=	Cl	$N(CH_3)\text{-}SO_2CH_3$
1575	CH	=	Cl	$N(CH_3)\text{-}SO_2CH_2CH_3$
1576	CH	=	Cl	$N(CH_3)\text{-}SO_2CH_2CH_2CH_3$
1577	CH	=	Cl	$N(CH_3)\text{-}SO_2CH(CH_3)_2$
1578	CH	=	Cl	$N(CH_3)\text{-}SO_2C(CH_3)_3$
1579	CH	=	Cl	$N(CH_3)\text{-}SO_2CH_2Cl$
1580	CH	=	Cl	$N(CH_3)\text{-}SO_2CH_2CH_2Cl$
1581	CH	=	Cl	$N(CH_3)\text{-}SO_2CH_2CH_2OCH_3$
1582	CH	=	Cl	$N(CH_3)\text{-}SO_2CH_2CH_2SCH_3$
1583	CH	=	Cl	$N(CH_2CH_3)\text{-}SO_2CH_3$
1584	CH	=	Cl	$N(CH_2CH_3)\text{-}SO_2CH_2CH_3$
1585	CH	=	Cl	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2CH_3$
1586	CH	=	Cl	$N(CH_2CH_3)\text{-}SO_2CH(CH_3)_2$
1587	CH	=	Cl	$N(CH_2CH_3)\text{-}SO2C(CH_3)_3$
1588	CH	=	Cl	$N(CH_2CH_3)\text{-}SO_2CH_2Cl$
1589	CH	=	Cl	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2Cl$
1590	CH	=	Cl	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2OCH_3$
1591	CH	=	Cl	$N(CH_2CH_3)\text{-}SO_2CH_2CH_2SCH_3$
1592	CH	=	Cl	$NH(CH_3)$
1593	CH	=	Cl	$NHCH_2CH_3$
1594	CH	=	Cl	$NHCH_2CH_2CH_3$
1595	CH	=	Cl	$NHCH(CH_3)_2$
1596	CH	=	Cl	$NHC(CH_3)_3$
1597	CH	=	Cl	$NHCH_2CH(CH_3)_2$

	$(Y)_n$	R^1	R^2	R^4
1598	CH	=	Cl	$NHCH(CH_3)CH_2CH_3$
1599	CH	=	Cl	$NHCH_2CH_2Cl$
1600	CH	=	Cl	$NHCH_2CH_2OCH_3$
1601	CH	=	Cl	$NHCH_2CH_2SCH_3$
1602	CH	=	Cl	$NHCH_2COOCH_3$
1603	CH	=	Cl	$NHCH_2CONH_2$
1604	CH	=	Cl	$NHCH_2CH=CH_2$
1605	CH	=	Cl	$NHCH_2C\equiv CH$
1606	CH	=	Cl	NH-Cyclopentyl
1607	CH	=	Cl	NH-Cyclohexyl
1608	CH	=	Cl	NH-Phenyl
1609	CH	=	Cl	$N(CH_3)_2$
1610	CH	=	Cl	$N(CH_3)CH_2CH_3$
1611	CH	=	Cl	$N(CH_3)CH(CH_3)_2$
1612	CH	=	Cl	$N(CH_3)C(CH_3)_3$
1613	CH	=	Cl	$N(CH_3)CH_2CH_2CH_3$
1614	CH	=	Cl	$N(CH_3)CH_2CH(CH_3)_2$
1615	CH	=	Cl	$N(CH_3)CH(CH_3)CH_2CH_3$
1616	CH	=	Cl	$N(CH_3)CH_2CH_2Cl$
1617	CH	=	Cl	$N(CH_3)CH_2CH_2OCH_3$
1618	CH	=	Cl	$N(CH_3)CH_2CH_2SCH_3$
1619	CH	=	Cl	$N(CH_3)CH_2COOCH_3$
1620	CH	=	Cl	$N(CH_3)CH_2CONH_2$
1621	CH	=	Cl	$N(CH_3)CH_2CH=CH_2$
1622	CH	=	Cl	$N(CH_3)CH_2C\equiv CH$
1623	CH	=	Cl	N(CH3)-Cyclopentyl
1624	CH	=	Cl	N(CH3)-Cyclohexyl
1625	CH	=	Cl	$N(CH_3)$-Phenyl
1626	CH	=	Cl	$N(CH_2CH_3)_2$
1627	CH	=	Cl	$N(CH_2CH_3)CH(CH_3)_2$
1628	CH	=	Cl	$N(CH_2CH_3)CH_2CH_2CH_3$
1629	CH	=	Cl	$N(CH_2CH_3)C(CH_3)_3$
1630	CH	=	Cl	$N(CH_2CH_3)CH_2CH(CH_3)_2$
1631	CH	=	Cl	$N(CH_2CH_3)CH(CH_3)CH_2CH_3$
1632	CH	=	Cl	$N(CH_2CH_3)CH_2CH_2Cl$
1633	CH	=	Cl	$N(CH_2CH_3)CH_2CH_2OCH_3$
1634	CH	=	Cl	$N(CH_2CH_3)CH_2CH_2SCH_3$
1635	CH	=	Cl	$N(CH_2CH_3)CH_2COOCH_3$
1636	CH	=	Cl	$N(CH_2CH_3)CH_2CONH_2$
1637	CH	=	Cl	$N(CH_2CH_3)CH_2CH=CH_2$
1638	CH	=	Cl	$N(CH_2CH_3)CH_2C\equiv CH$
1639	CH	=	Cl	$N(CH_2CH_3)$-Cyclopentyl
1640	CH	=	Cl	$N(CH_2CH_3)$-Cyclohexyl
1641	CH	=	Cl	$N(CH_2CH_3)$-Phenyl
1642	CH	=	Cl	$N(CH(CH_3)_2)_2$
1643	CH	=	Cl	$N(CH(CH_3)_2)CH_2CH(CH_3)_2$
1644	CH	=	Cl	$N(CH(CH_3)_2)CH(CH_3)CH_2CH_3$
1645	CH	=	Cl	$N(CH(CH_3)_2)CH_2CH_2Cl$
1646	CH	=	Cl	$N(CH(CH_3)_2)CH_2CH_2OCH_3$
1647	CH	=	Cl	$N(CH(CH_3)_2)CH_2CH_2SCH_3$

	$(Y)_n$	R^1	R^2	R^4
1648	CH	=	Cl	$N(CH(CH_3)_2)CH_2COOCH_3$
1649	CH	=	Cl	$N(CH(CH_3)_2)CH_2CONH_2$
1650	CH	=	Cl	$N(CH(CH_3)_2)CH_2CH=CH_2$
1651	CH	=	Cl	$N(CH(CH_3)_2)CH_2C\equiv CH$
1652	CH	=	Cl	$(CH(CH_3)_2)$H-Cyclopentyl
1653	CH	=	Cl	$N(CH(CH_3)_2)$-Cyclohexyl
1654	CH	=	Cl	$N(CH(CH_3)_2)$-Phenyl
1655	CH	=	Cl	Morpholin-1-yl
1656	CH	=	Cl	Piperidin-1-yl

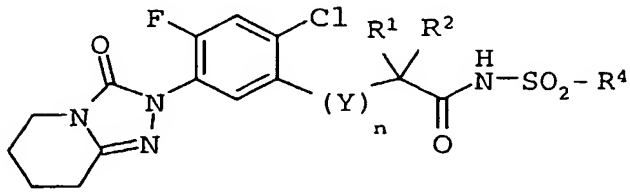
Particularly preferred compounds of the general formula I are the compounds of the general formula I.1a' as indicated below (compounds I in which Q = Q1a, R^3 = H, X^1 and X^2 are chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.1a')

Examples of compounds of formula I.1a' are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.1a'.1 to I.1a'.1656.

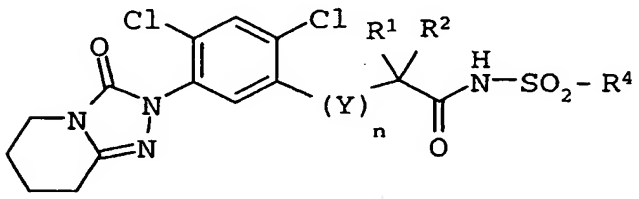
Particularly preferred compounds of the general formula I are the compounds of the general formula I.1b as indicated below (compounds I in which Q = Q1b, R^3 = H, X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.1b)

Examples of compounds of formula I.1b are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.1b.1 to I.1b.1656.

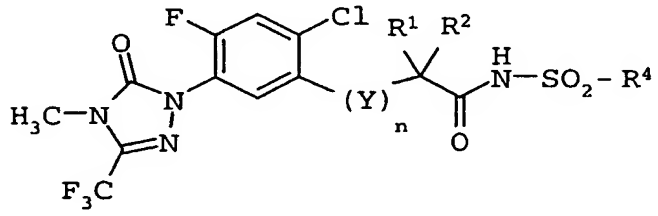
Particularly preferred compounds of the general formula I are the compounds of the general formula I.1b' as indicated below (compounds I in which Q = Q1b, R^3 = H, X^1 and X^2 are chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.1b')

Examples of compounds of formula I.1b' are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.1b'.1 to I.1b'.1656

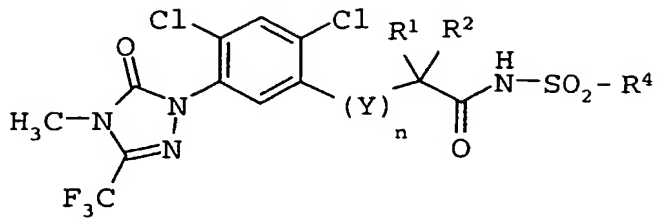
Particularly preferred compounds of the general formula I are the compounds of the general formula I.1c as indicated below (compounds I in which Q = Q1c, R^3 = H, X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.1c)

Examples of compounds of formula I.1c are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.1c.1 to I.1c.1656.

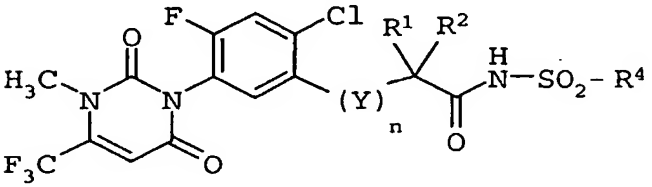
Particularly preferred compounds of the general formula I are the compounds of the general formula I.1c' as indicated below (compounds I in which Q = Q1c, R^3 = H, X^1 and X^2 are chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.1c')

Examples of compounds of formula I.1c' are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.1c'.1 to I.1c'.1656.

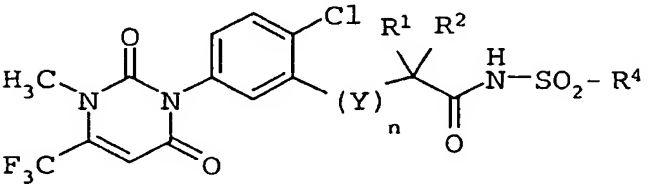
Particularly preferred compounds of the general formula I are the compounds of the general formula I.2a as indicated below (compounds I in which Q = Q2a, R^3 = H, X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.2a)

Examples of compounds of formula I.2a are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 2a .1 to I. 2a.1656.

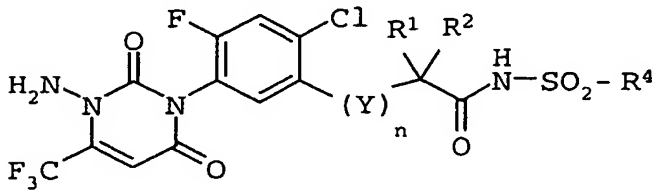
Particularly preferred compounds of the general formula I are the compounds of the general formula I.2a' as indicated below (compounds I in which Q = Q2a, R^3 = X^1 = H and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.2a')

Examples of compounds of formula I.2a' are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 2a' .1 to I. 2a'.1656.

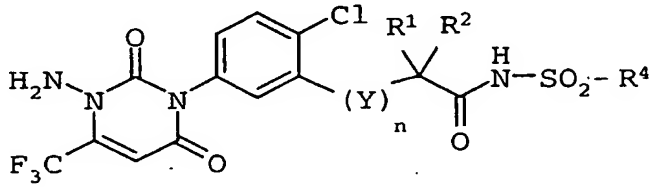
Particularly preferred compounds of the general formula I are the compounds of the general formula I.2b as indicated below (compounds I in which Q = Q2b, R^3 = H, X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.2b)

Examples of compounds of formula I.2b are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 2b .1 to I. 2b.1656.

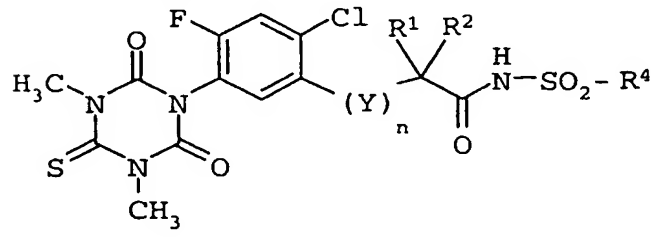
Particularly preferred compounds of the general formula I are the compounds of the general formula I.2b' as indicated below (compounds I in which Q = Q2b, R^3 = H, X^1 is H and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.2b')

Examples of compounds of formula I.2b' are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 2b' .1 to I. 2b'.1656.

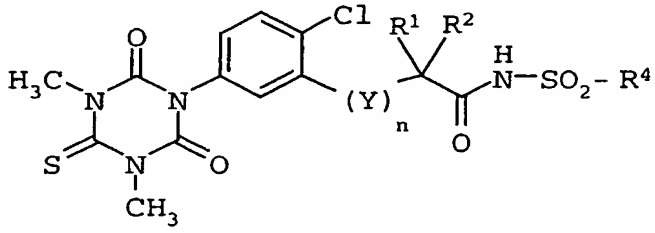
Particularly preferred compounds of the general formula I are the compounds of the general formula I.3a as indicated below (compounds I in which Q = Q3a, R^3 = H, X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.3a)

Examples of compounds of formula I.3a are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 3a .1 to I. 3a.1656.

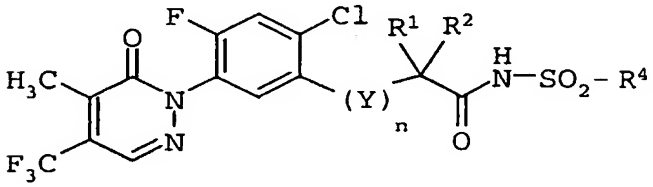
Particularly preferred compounds of the general formula I are the compounds of the general formula I.3a' as indicated below (compounds I in which Q = Q3a, R^3 = H, X^1 is H and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.3a')

Examples of compounds of formula I.3a' are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 3a' .1 to I. 3a'.1656.

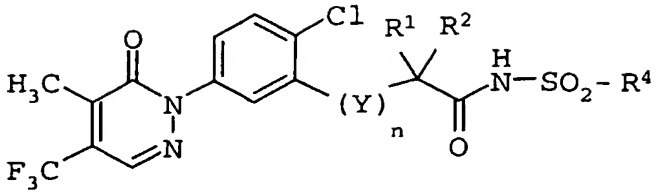
Particularly preferred compounds of the general formula I are the compounds of the general formula I.4a as indicated below (compounds I in which Q = Q4a, R^3 = H, X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.4a)

Examples of compounds of formula I.4a are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 4a .1 to I. 4a.1656.

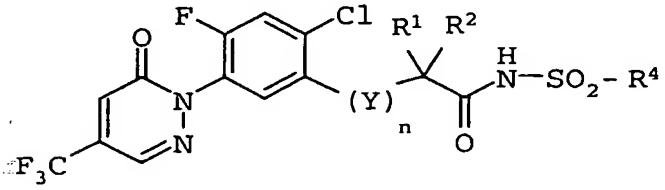
Particularly preferred compounds of the general formula I are the compounds of the general formula I.4a' as indicated below (compounds I in which Q = Q4a, R^3 = H, X^1 is H and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.4a')

Examples of compounds of formula I.4a' are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 4a' .1 to I. 4a'.1656.

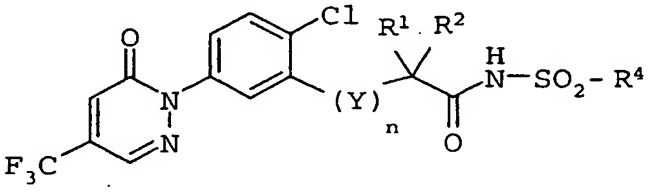
Particularly preferred compounds of the general formula I are the compounds of the general formula I.4b as indicated below (compounds I in which Q = Q4b, R^3 = H, X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.4b)

Examples of compounds of formula I.4b are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.4b.1 to I.4b.1656.

Particularly preferred compounds of the general formula I are the compounds of the general formula I.4b' as indicated below (compounds I in which Q = Q4b, R^3 = H, X^1 is H and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.

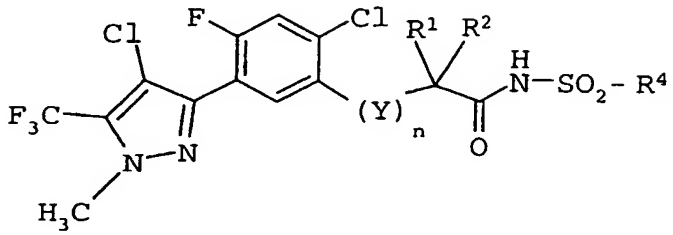


(I.4b')

Examples of compounds of formula I.4b' are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.4b'.1 to I.4b'.1656.

Particularly preferred compounds of the general formula I are the compounds of the general formula I.5a as indicated below (compounds I in which Q = Q5a, R^3 = H,

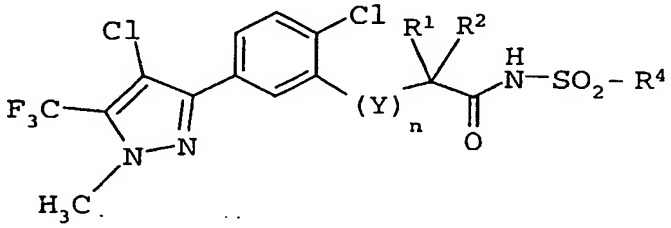
X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.5a)

Examples of compounds of formula I.5a are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 5a .1 to I. 5a.1656.

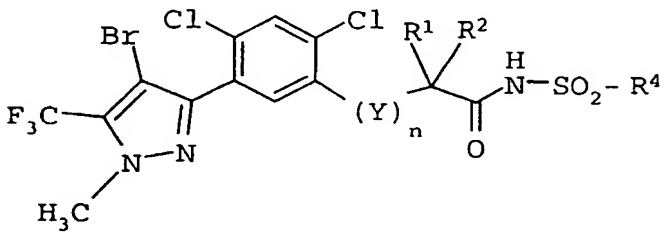
Particularly preferred compounds of the general formula I are the compounds of the general formula I.5a' as indicated below (compounds I in which Q = Q5a, R^3 = H, X^1 is H and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.5a')

Examples of compounds of formula I.5a' are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 5a' .1 to I. 5a'.1656.

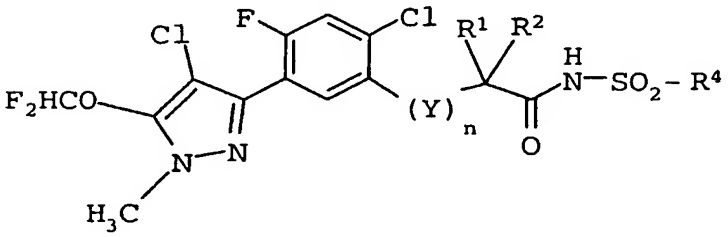
Particularly preferred compounds of the general formula I are the compounds of the general formula I.5b as indicated below (compounds I in which Q = Q5b, R^3 = H, X^1 and X^2 are chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.5b)

Examples of compounds of formula I.5b are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.5b.1 to I.5b.1656.

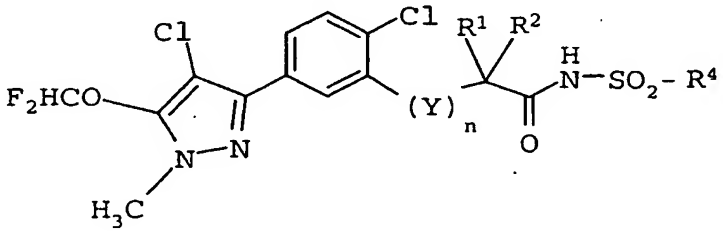
Particularly preferred compounds of the general formula I are the compounds of the general formula I.5c as indicated below (compounds I in which Q = Q5c, R^3 = H, X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.5c)

Examples of compounds of formula I.5c are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.5c.1 to I.5c.1656.

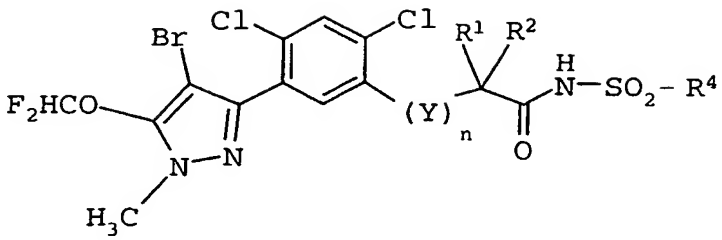
Particularly preferred compounds of the general formula I are the compounds of the general formula I.5c' as indicated below (compounds I in which Q = Q5c, R^3 = H, X^1 is H and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.5c')

Examples of compounds of formula I.5c' are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.5c'.1 to I.5c'.1656.

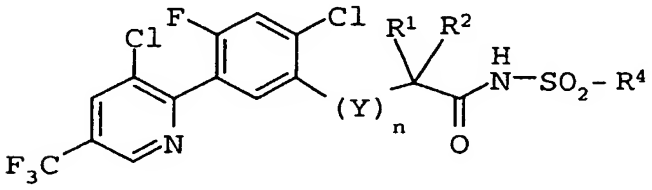
Particularly preferred compounds of the general formula I are the compounds of the general formula I.5d as indicated below (compounds I in which Q = Q5d, R^3 = H, X^1 and X^2 are chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.5d)

Examples of compounds of formula I.5d are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.5d.1 to I.5d.1656.

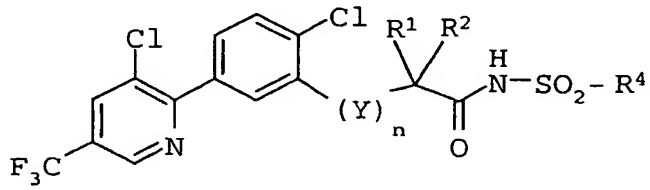
Particularly preferred compounds of the general formula I are the compounds of the general formula I.6a as indicated below (compounds I in which Q = Q6a, R^3 = H, X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.6a)

Examples of compounds of formula I.6a are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 6a .1 to I. 6a.1656.

Particularly preferred compounds of the general formula I are the compounds of the general formula I.6a' as indicated below (compounds I in which Q = Q6a, R^3 = H, X^1 is H and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.

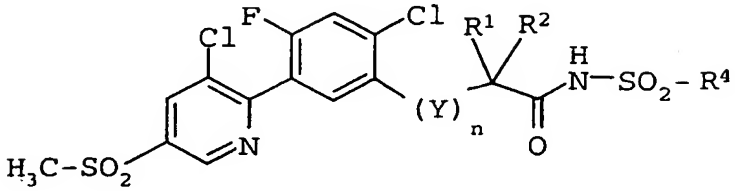


(I.6a')

Examples of compounds of formula I.6a' are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 6a' .1 to I. 6a'.1656.

Particularly preferred compounds of the general formula I are the compounds of the general formula I.6b as indicated below (compounds I in which Q = Q6b, R^3 = H,

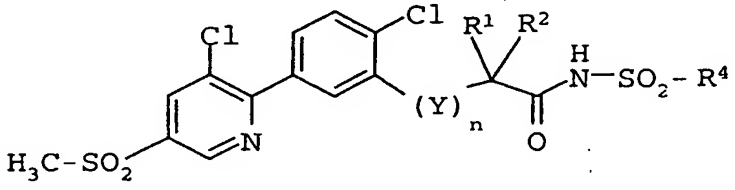
X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.6b)

Examples of compounds of formula I.6b are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.6b.1 to I.6b.1656.

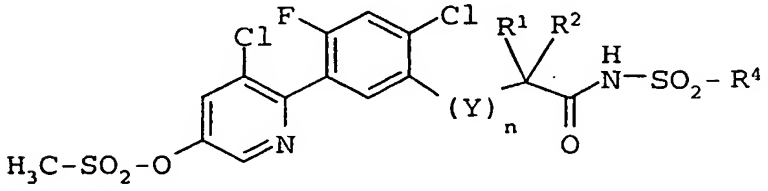
Particularly preferred compounds of the general formula I are the compounds of the general formula I.6b' as indicated below (compounds I in which Q = Q6b, R^3 = H, X^1 is H and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.6b')

Examples of compounds of formula I.6b' are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.6b'.1 to I.6b'.1656.

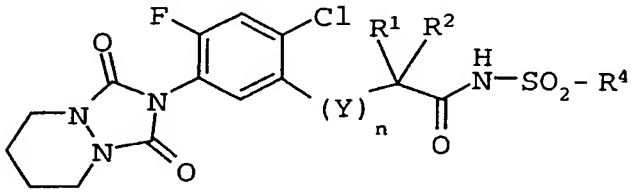
Particularly preferred compounds of the general formula I are the compounds of the general formula I.6c as indicated below (compounds I in which Q = Q6c, R^3 = H, X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.6c)

Examples of compounds of formula I.6c are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I.6c.1 to I.6c.1656.

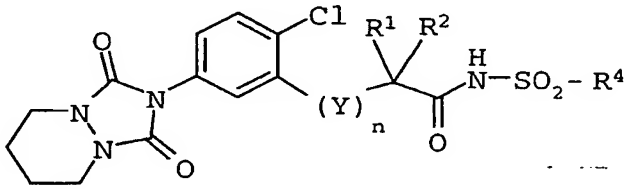
Particularly preferred compounds of the general formula I are the compounds of the general formula I.7a as indicated below (compounds I in which Q = Q7a, R^3 = H, X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.7a)

Examples of compounds of formula I.7a are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 7a .1 to I. 7a.1656.

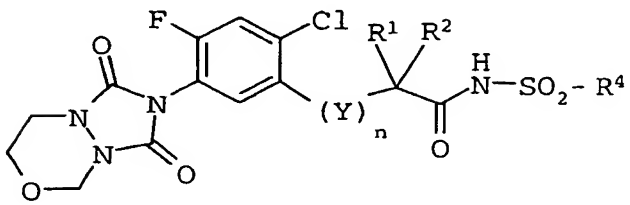
Particularly preferred compounds of the general formula I are the compounds of the general formula I.7a' as indicated below (compounds I in which Q = Q7a, R^3 = H, X^1 is H and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.7a')

Examples of compounds of formula I.7a' are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 7a' .1 to I. 7a'.1656.

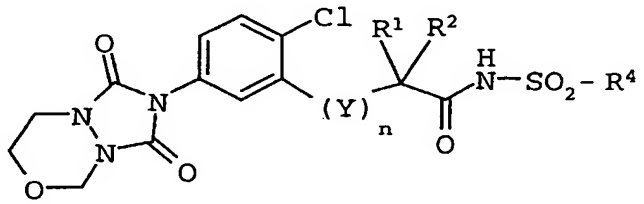
Particularly preferred compounds of the general formula I are the compounds of the general formula I.7b as indicated below (compounds I in which Q = Q7b, R^3 = H, X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.7b)

Examples of compounds of formula I.7b are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 7b .1 to I. 7b.1656.

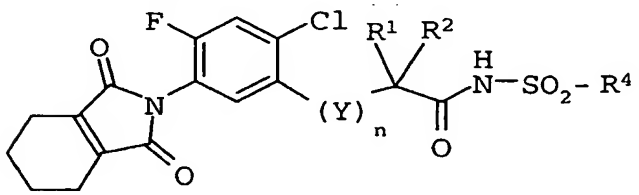
Particularly preferred compounds of the general formula I are the compounds of the general formula I.7b' as indicated below (compounds I in which Q = Q7b, R^3 = H, X^1 is H and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.7b')

Examples of compounds of formula I.7b' are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 7b' .1 to I. 7b'.1656.

Particularly preferred compounds of the general formula I are the compounds of the general formula I.8a as indicated below (compounds I in which Q = Q8a, R^3 = H, X^1 is fluorine and X^2 is chlorine), in which $(Y)_n$, R^1, R^2 and R^4 have the meanings as indicated above.



(I.8a)

Examples of compounds of formula I.8a are those, wherein $(Y)_n$, R^1, R^2 and R^4 have the meanings as given in line Nos 1 to 1656 of Table 1. These compounds are also designated below as compounds I. 8a .1 to I.8a.1656.

Particular desirable compounds include: Propane-2-sulfonic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide ; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-

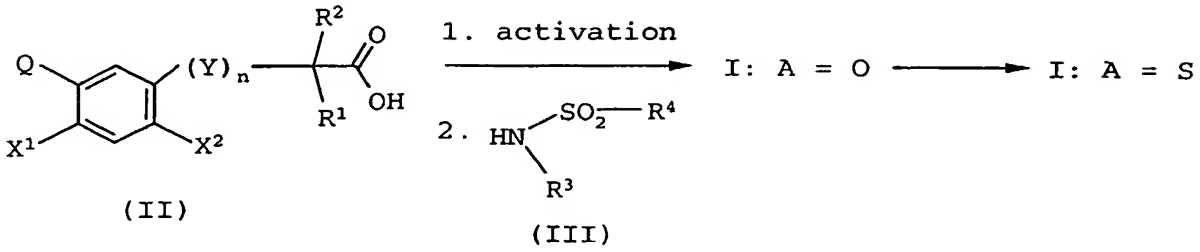
phenylsulfanyl]-propionyl}-amide; Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide; Propane-2-sulfonic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-acetyl}-amide; Propane-2-sulfonic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-acetyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-acetyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-acetyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-acetyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-acetyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-propionyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-acetyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-acetyl}-amide; Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-acetyl}-amide; Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-propionyl}-amide; Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-acetyl}-amide; Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-acetyl}-amide; Propane-2-sulfonic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylamino]-acetyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylamino]-acetyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-propionyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-

trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-2-methyl-propionyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-propionyl}-amide; Dimethyl-sulfamic acid 2-chloro-4-fluoro-5-(5-methyl-6-oxo-4-trifluoromethyl-6H-pyridazin-1-yl)-benzoylamide; Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-propionyl}-amide; and Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylamino]-acetyl}-amide.

Even more desirable compounds are: Propane-2-sulfonic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide ; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide; Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-acetyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-propionyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-propionyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-propionyl}-amide; and Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-propionyl}-amide.

The compounds useful in the present invention may be readily synthesized using techniques generally known to synthetic organic chemists. The present compositions may be prepared in a known manner, for example by homogeneously mixing or grinding the active ingredient(s) with other ingredients. Additional components may be admixed with the composition at any point during the process, including during and/or after any mixing step of the herbicide components.

The key step in the synthesis of the compounds of formula I is the activation of an acid of formula II and subsequent reaction with a sulfamid of the formula III as shown in scheme 1:



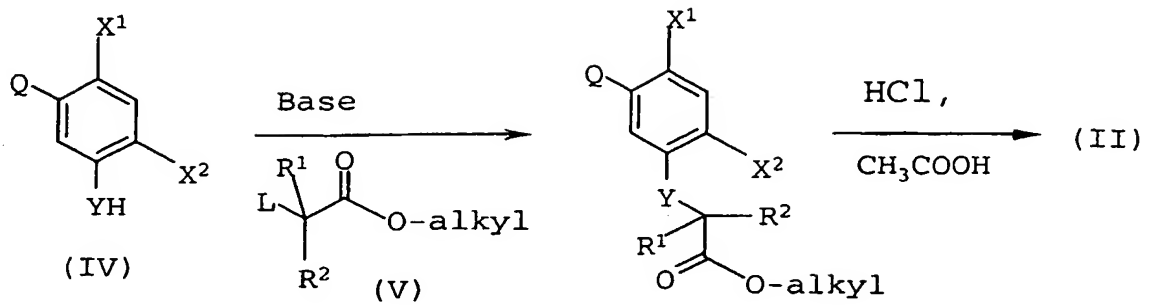
(II) (III)

In scheme 1 the variables X^1, X^2, Q, Y, n, R^1 to R^4 have the meanings as defined above. R^3 is preferably H.

The reaction of II with the sulfamide III by activation can be performed e.g. according to the methods described in WO 01/83459 p 31 ff. Methods of activating carboxylic acids are also known from e.g. Houben-Weyl, Methoden der Org. Chemie Vol E5, (1985) part 1, pp. 587 ff. and Vol E5, (1985) part 2, pp. 934 ff. and can be applied to the compounds II. For example activation of II can be achieved by transferring the COOH group of II into the corresponding acid halide, preferably into its acid chloride, or by reacting II with III in the presence of a dehydrating agent such as carbonyl diimidazole or dicyclohexyl carbodiimide

The sulfamides III are either known from the literature or can be prepared according to the methods disclosed in Houben-Weyl, Methoden der Org. Chemie Vol E11. (1985) S 1019, G. Hamprecht, Angew. Chem. 93, 151-163 and

The acids II are either known from the literature, e.g. from EP-A 361114, EP-A 300387, WO 96/39392, WO 97/07104, DE 19754348, WO 99/52878, WO 01/79182, US 5,783,522, US 6,090,753 or can be prepared according to methods known from the literature. When Y is O, NH or S acids II can be prepared by the synthetic route as outlined in scheme 2:



Q = Q1 - Q7
Y = O, S or NH

In scheme 2 the variables X^1, X^2, R^1 and R^2 are as defined above. L is usually halogen, preferably chlorine, bromine or iodine. Alkyl is preferably methyl or ethyl.

The conditions required for the reaction of IV with V to obtain VI and subsequent hydrolysis of the ester VI to obtain the acid II are well known to a skilled person, e.g. from WO 97/07104.

Compounds IV are known, e.g.

for Q = Q1 from US 4,806,145, US 4,743,291, US 5,035,740, US 4,818,275, WO 87/03782 (Compound IV with Q= Q1, A^1 = O, R^7= CH_3, R^8 = CHF_2, X^1=F, X^2=Cl, YH= OH: CAS-Nr. 97986-19-1; Q= Q1, A^1 = O, R^7= CH_3, R^8 = CHF_2, X^1=F, X^2=Cl, YH= NH_2: CAS-Nr. 111992-07-5; Q= Q1, A^1 = O, R^7 and R^8 = -$(CH_2)_4$-, X^1=F, X^2=Cl, YH= OH: CAS-Nr. 292856-11-2);

for Q = Q2 from EP 1122244, WO 9838188, WO 93/14073, US 6,303,783, WO 98/47904, US 5753595, WO 97/08170 (Compound IV with Q = Q2, A^2, A^3 = O, R^9 = CH_3, R^{10}= CF_3, R^{11} = H, X^1=F, X_2=Cl, YH = OH: Cas-Nr. 114136-60-6; Q = Q2, A^2, A^3 = O, R^9 = CH_3, R^{10}= CF_3, R^{11} = H, X^1=F, X_2=Cl, YH = SH: Cas-Nr. 353292-92-9; Q = Q2, A^2, A^3 = O, R^9 = CH_3, R^{10}= CF_3, R^{11} = H, X^1=F, X_2=Cl, YH = NH_2: Cas-Nr. 114136-76-4).

for Q = Q3 from WO 00/50409 (Compound IV with Q = Q3 with R^{12}, R^{13} = CH_3, A^4, A^6 = O, A^5=S, X^1= F, X^2= Cl, YH= OH, Cas-Nr. 289882-54-8);

for Q = Q4 from WO 97/07104, WO 99/52878, US 6,090,753, WO 01/79182 (Compound IV with Q = Q4: A^7 = O, R^{14}= CF_3, R^{15} = H, X^1=F, X^2=Cl, Y=OH: Cas-Nr. 188489-77-2);

Q = Q5 from WO 92/06962, (Compound IV with Q = Q5 R^{16}= CH_3, R^{17}= CF_3, R^{18}= Cl, X^1=F, X^2=Cl, Y = OH, Cas-Nr. 142625-52-3; Q = Q5, R^{16}= CH_3, R^{17}= CF_3,

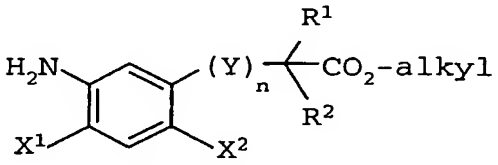
R^{18}= Cl, X^1=F, X^2=Cl, Y = NH_2, Cas-Nr. 142621-86-1; Q = Q5, R^{16}= CH_3, R^{17}= CF_3, R^{18}= Cl, X^1=F, X^2=Cl, Y = SH, Cas-Nr. 142625-68-1; Q = Q5, R^{16}= CH_3, R^{17}= $OCHF_2$, R^{18}= Cl, X^1=F, X^2=Cl, Y = OH, Cas-Nr. 129631-56-7 ; Q = Q5, R^{16}= CH_3, R^{17}= $OCHF_2$, R^{18}= Cl, X^1=F, X^2=Cl, Y = NH2, Cas-Nr. 129631-55-6; Q = Q5, R^{16}= CH_3, R^{17}= $OCHF_2$, R^{18}= Cl, X^1=F, X^2=Cl, Y = SH, Cas-Nr. 129630-96-2);

for Q = Q6: from WO 95/02580 and WO 02/42275 (Q=Q6, R^{19}= Cl, R^{20}= H, R^{21}= CF_3, R^{22}= H, X^1=F, X^2=Cl, Y = OH, Cas-Nr. 180153-43-9; Q=Q6, R^{19}= Cl, R^{20}= H, R^{21}= CF_3, R^{22}= H, X^1=F, X^2=Cl, Y = NH_2, Cas-Nr. 195304-19-9)

for Q=Q7 from WO 94/10173, EP 211805 (Q=Q7, A^8= A^9 = O. R^{23}-R^{24}= -(CH2)4-, X^1=F, X^2=Cl, Y = OH, Cas-Nr. 98417-20-0).

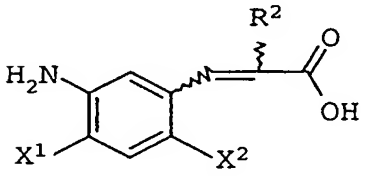
Compounds of formula IV, which are not specifically mentioned in the references cited, can be obtained in analogous manner.

Compounds of the formula II can be also prepared starting from aniline compounds of the formula VI,

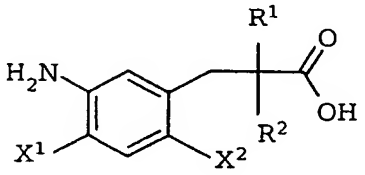


(VI)

wherein X^1, X^2 Y, n R^1 and R^2 are as defined above and Q is Q1 - Q4, Q7 or Q8 by routine methods in the synthesis of heterycles, or in anology to the methods described in the schemes below. For example, compounds, wherein Y is CH= or CH_2, can be prepared starting from aminocinnamic acid derivatives of the formulas VIa or VIb



(VIa)

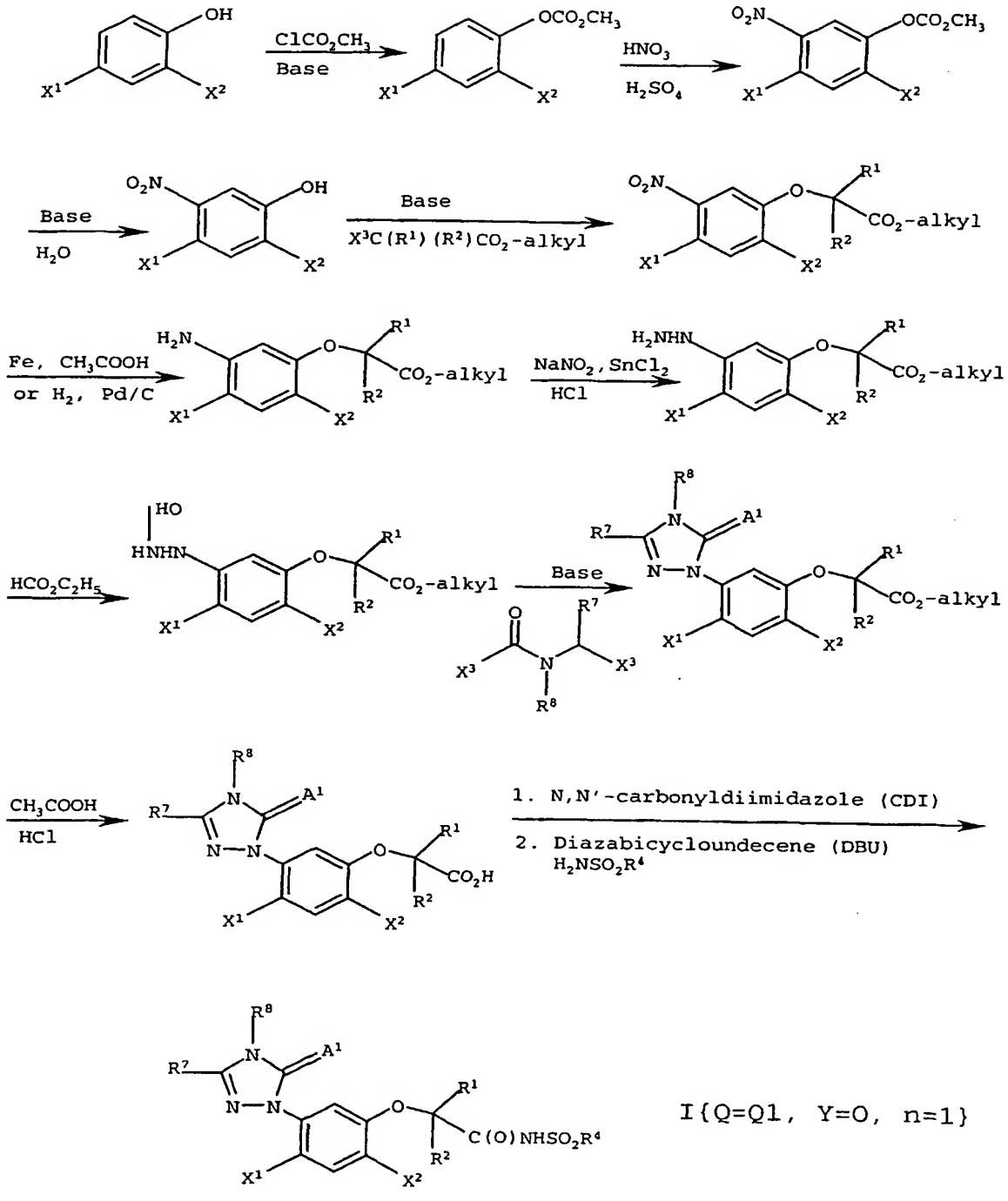


(VIb)

wherein X^1, X^2, R^1 and R^2 are as defined above by routine methods in the synthesis of heterycles, or in anology to the methods described in the schemes below. Compounds of the formulas VIa or VIb are known e.g. from WO 01/79182, EP-A 240 659, EP-A 300 387 and DE-A 39 04 082.

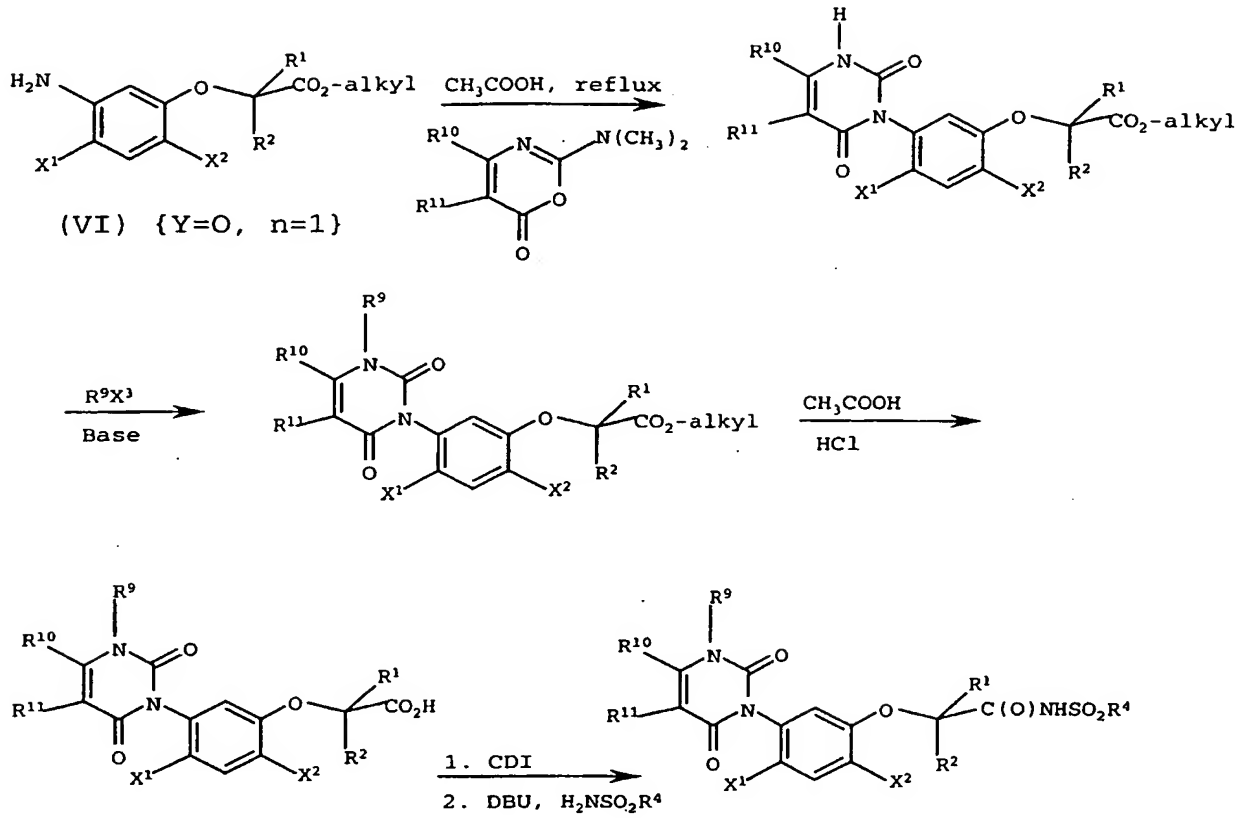
Exemplary synthesis methods for the compounds of formula I are shown in schemes 3 to 7 below for particular Y, n and Q values. In the following schemes X^3 is halogen, preferably chlorine, bromine or iodine. DBU means diazabicyloundecene. CDI is carbonyldimidazole. The methods and conditions for achieving the reactions described ins the following schemes are in general known from the literature cited above and from Böger et al. Peroxidizing Herbicides, Springer Verlag 1999.

Scheme 3: Y is O, n = 1, Q = Q1

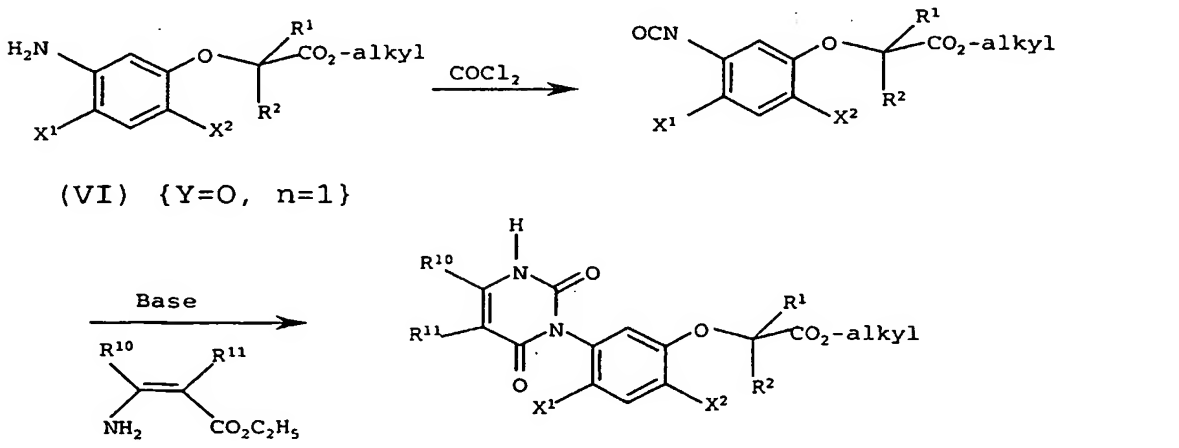


I{Q=Q1, Y=O, n=1}

Scheme 4: Y is O, n = 1, Q = Q2

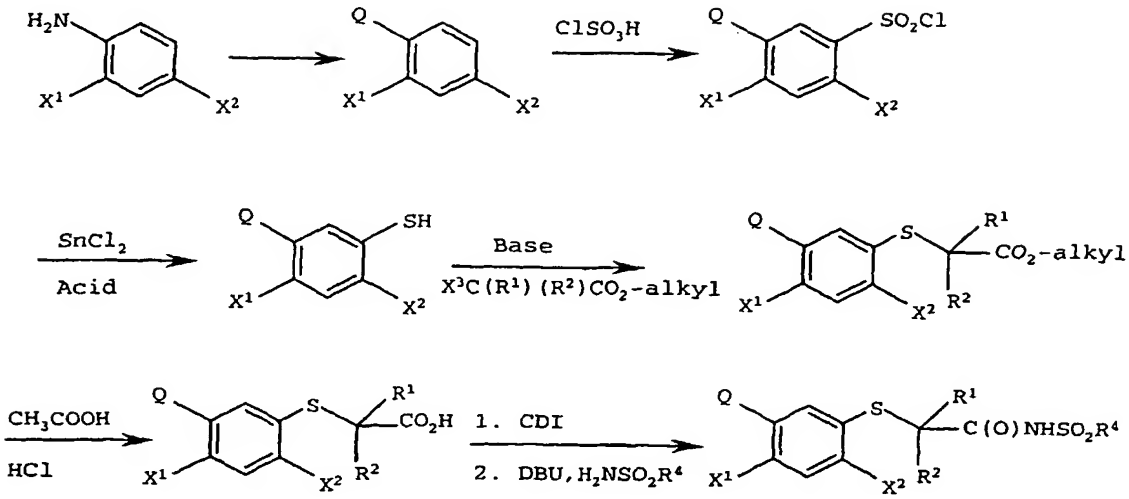


Alternatively, the intermediate compound IV {Q = Q2, Y=O, n=1} may be prepared from compound VI {Y=O, n=1} in the following manner (scheme 5):

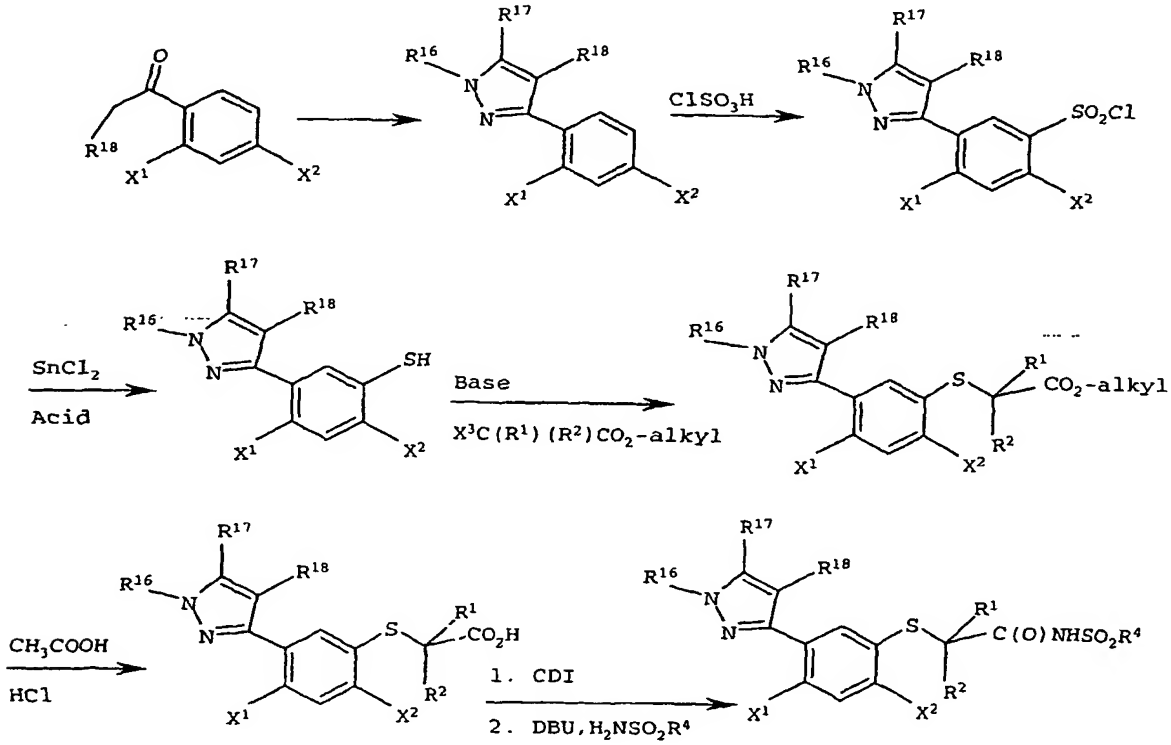


(IV) {Q=Q2, Y=O, n=1}

Scheme 6: Y = S, n = 1, Q = Q1 to Q4, Q7, Q8



Scheme 7: Y = S, n = 1, Q = Q5



In scheme 7, the radical R^{18} in the starting material is usually different from halogen. A halogen atom as radical R^{18} will be usually introduced during the reaction sequence.

The compounds I and their agriculturally utilizable salts are suitable - both as isomer mixtures and in the form of the pure isomers - as herbicides. The compounds I or herbicidal compositions comprising their salts control vegetation very well on non-crop areas, particularly at high application rates. In crops such as wheat, rice, corn, soybeans and cotton, they act against weeds and weed grasses without noticeably damaging the crop plants. This effect occurs especially at low application rates.

Weeds and weed grases species are exemplified without limitation by the following: velvetleaf (Abutilon theophrasti), pigweed (Amaranthus spp.), mugwort (Artemisia spp.), milkweed (Asclepias spp.), buttonweed (Borreria spp.), oilseed rape, canola, indian mustard, etc. (Brassica spp.), canada thistle (Cirsium arvense), commelina (Commelina spp.), field bindweed (Convolvulus arvensis), filaree (Erodium spp.), sunflower (Helianthus spp.), morning glory (Ipomoea spp.), kochia (Kochia scoparia), mallow (Malva spp.), wild buckwheat, smartweed, etc. (Polygonum spp.), purslane (Portulaca spp.), kudzu (Pueraria spp.), russian thistle (Salsola spp.), sida (Sida spp.), wild mustard (Sinapis arvensis) and cocklebur (Xanthium spp.).

Narrowleaf species are exemplified without limitation by the following: wild oat (Avena fatua), carpetgrass (Axonopus spp.), brachiaria (Brachiaria spp.), downy brome (Bromus tectorum), bermuda grass (Cynodon dactylon), yellow nutsedge (Cyperus esculentus), purple nutsedge (C. rotundus), crabgrass (Digitaria spp.), barnyard grass (Echinochloa crus-galli), goosegrass (Eleusine indica), quackgrass (Elymus repens), lalang (Imperata cylindrica), annual ryegrass (Lolium multiflorum), perennial ryegrass (Lolium perenne), rice (Oryza sativa), ottochloa (Ottochloa nodosa), guineagrass (Panicum maximum), dallisgrass (Paspalum dilatatum), bahiagrass (Paspalum notatum), canarygrass (Phalaris spp.), reed (Phragmites spp.), foxtail (Setaria spp.), johnsongrass (Sorghum halepense), wheat (Triticum aestivum), cattail (Typha spp.), and corn (Zea mays).

Other harmful plant species are exemplified without limitation by the following: horsetail (Equisetum spp.), bracken (Pteridium aquilinum), blackberry (Rubus spp.) and gorse (Ulex europaeus).

Depending on the particular application method, the compounds I or compositions comprising them can additionally be employed for controlling undesired plants in a further number of crop plants. The following crops, for example, are suitable:

Allium cepa, Ananas comosus, Arachis hypogaea, Asparagus officinalis, Beta vulgaris spec. altissima, Beta vulgaris spec. rapa, Brassica napus var. napus, Brassica napus var. napobrassica, Brassica rapa var. silvestris, Camellia sinensis, Carthamus tinctorius, Carya illinoinensis, Citrus limon, Citrus sinensis, Coffea arabica (Coffea canephora, Coffea liberica), Cucumis sativus, Cynodon dactylon, Daucus carota, Elaeis guineensis, Fragaria vesca, Glycine max, Gossypium hirsutum, (Gossypium arboreum, Gossypium herbaceum, Gossypium vitifolium), Helianthus annuus, Hevea brasiliensis, Hordeum vulgare, Humulus lupulus, Ipomoea batatas, Juglans regia, Lens culinaris, Linum usitatissimum, Lycopersicon lycopersicum, Malus spec., Manihot esculenta, Medicago sativa, Musa spec., Nicotiana tabacum (N.rustica), Olea europaea, Oryza sativa, Phaseolus lunatus, Phaseolus vulgaris, Picea abies, Pinus spec., Pisum sativum, Prunus avium, Prunus persica, Pyrus communis, Ribes sylvestre, Ricinus communis, Saccharum officinarum, Secale cereale, Solanum tuberosum, Sorghum bicolor (S. vulgare), Theobroma cacao, Trifolium pratense, Triticum aestivum, Triticum durum, Vicia faba, Vitis vinifera, Zea mays.

Moreover, the compounds I can also be used in crops which have been made tolerant to the action of herbicides by means of breeding, including genetic engineering methods.

In addition, the compounds of the general formula I according to the invention and their agriculturally utilizable salts are also suitable for the desiccation and/or defoliation of plants.

As desiccants, they are suitable, in particular, for drying out the above-ground parts of crop plants such as potatoes, rapeseed, sunflower and soybeans. Completely mechanical harvesting of these important crop plants is made possible in this way.

Also of economic interest is the time-controlled fall of fruit or the reduction in their firmness of attachment to the plant, for example in the case of citrus fruits, olives and other types of pomes, drupes and indehiscent fruit, since by this means the harvesting of this fruit is facilitated. The fall is based on the formation of abscission tissue between the fruit, leaf and sprout part of the plants and is promoted by the compounds of the general formula I according to the invention and their salts. The use of the compounds of the general formula I according to the invention and their agriculturally utilizable salts thus allows controlled fall of fruits and controlled defoliation of the crop plants such as cotton and thus makes possible facilitation of

harvesting in crop plants of this type. Controlled defoliation is particularly also of interest in the case of useful plants such as cotton. By means of the shortening of the time interval in which the individual cotton plants become ripe, increased quality of the harvested fiber material is achieved. Control of undesirable vegetation is in general achieved by contacting the plants, their habitat or seeds with a herbicidally effective amount of at least one compound I or its salt.

As used throughout, the term "contacting" is used to mean at least an instance of exposure of at least one plant cell or planting area with a compound or composition of formula I by applying the herbicide using any method known in the art. As such, contacting" includes both direct contact (applying the composition directly on the plant) and indirect contact (applying the composition to the planting area whereupon the plant incorporates the active ingredients). This contact can take place before the target plant emerges from the soil ("pre-emergence" or "PRE") or after the target plant emerges from the soil ("post-emergence" or "POST"). The compounds of the present invention can be applied in a number of ways, for example, they can be applied, formulated or unformulated, directly to the foliage of the target plant or to the planting area or they can be sprayed on, broadcast, dusted on or applied as a cream or paste formulation or they can be applied as slow release granules (ie by injecting, shanking, chiseling or working into the soil).

In general, "herbicidally effective amount" means the amount needed to achieve an observable herbicidal effect on plant growth, including the effects of plant necrosis, plant death, growth inhibition, reproduction inhibition, inhibition of proliferation, and removal, destruction, or otherwise diminishing the occurrence and activity of a plant. Desirably, the herbicidal effects result in greater than 40% control, more desirably greater than 50% control, even more desirably more than 60% control, even more desirably more than 70% control, even more desirably more than 80% control, and even more desirably more than 90% control. Such control may not be immediately apparent, but may be present after 1 days to 15 days after treatment. One of ordinary skill in the art will recognize that the potency and, therefore, an "herbicidally effective amount," can vary for the various compounds/compositions used in the invention.

The compounds of the formula I according to the invention or the herbicidal compositions comprising them can be applied by spraying, atomizing, dusting, broadcasting, watering or treatment of the seed or mixing with the seed in the form of

directly sprayable aqueous solutions, powders, suspensions, also high-percentage aqueous, oily or other suspensions or dispersions, emulsions, oil dispersions, pastes, dusting compositions, broadcasting compositions or granules. The use forms depend on the intended use; in each case they should if possible guarantee the finest dispersion of the active compounds according to the invention. The compositions according to the invention contain a herbicidally active amount of at least one compound of the general formula I or an agriculturally utilizable salt of I and the auxiliaries customary for the formulation of crop protection compositions.

Typical formulations contain the compound I of the present invention in a range from 0.1 parts to 100 parts by weight and may also contain a carrier. The carrier may be any natural or synthetic organic or inorganic ingredient that facilitates dispersion of the composition or compound and contact with the plant. The carrier may be solid (e.g. clays, synthetic silicates, silica, resins, waxes, kaolin, bentonite, dolomite, calcium carbonate, talc, powdered magnesia, Fuller's earth, gypsum, diatomaceous earth, China clay, and combinations thereof); liquid (e.g. water, aqueous solutions, N-methylpyrrolidone, kerosene, cyclohexanone, methylethyl ketone, acetonitrile, methanol, ethanol, isopropyl alcohol, acetone, butyl cellosolved, 2-ethyl-1hexanol, cyclohexanone, methyl cellulose, polyvinyl alcohol, sodium lignin sulfonates, polymeric alkyl naphthalene sulfonates, sodium naphthalene sulfonate, polymethylene bisnaphthalenesulfonate, sodium N-methyl-N-(long.chain acid) laureates, hydrocarbons and other water-immiscible ethers, esters and ketones, and combinations thereof); or a combination of solid and liquid carriers.

Suitable inert additives are essentially: mineral oil fractions of medium to high boiling point, such as kerosene or diesel oil, furthermore coal tar oils and oils of vegetable or animal origin, aliphatic, cyclic and aromatic hydrocarbons, e.g. paraffin, tetrahydronaphthalene, alkylated naphthalenes or their derivatives, alkylated benzenes or their derivatives, alcohols such as methanol, ethanol, propanol, butanol, cyclohexanol, ketones such as cyclohexanone or strongly polar solvents, e.g. amines such as N-methylpyrrolidone or water.

Aqueous application forms can be prepared from emulsion concentrates, suspensions, pastes, wettable powders or water-dispersible granules by addition of water. For the preparation of emulsions, pastes or oil dispersions, the compounds I can be homogenized as such or dissolved in an oil or solvent, by means of wetting agents,

adhesives, dispersants or emulsifiers. However, concentrates consisting of active substance, wetting agent, adhesive, dispersant or emulsifier and possibly solvent or oil can also be prepared, which are suitable for dilution with water.

Formulations useful in the present invention may also contain one or more surfactants to increase the biological effectiveness of the active ingredient. Suitable surface active ingredients include surfactants, emulsifying agents, and wetting agents. A wide range of surfactants is available and can be selected readily by those skilled in the art from "The Handbook of Industrial Surfactants," 2nd Edition, Gower (1997), which is incorporated herein by reference in its entirety for all purposes. There is no restriction on the type or chemical class of surfactant that can be used. Nonionic, anionic, cationic and amphoteric types, or combinations of more than one of these types, are all useful in particular situations.

Among nonionic surfactants, exemplary classes include polyoxyethylene alkyl, alkyne, alkynyl or alkylaryl ethers, such as polyoxyethylene primary or secondary alcohols, alkylphenols or acetylenic diols; polyoxyethylene alkyl or alkyne esters, such as ethoxylated fatty acids; sorbitan alkylesters, whether ethoxylated or not; glyceryl alkylesters; sucrose esters; and alkyl polyglycosides. Exemplary anionic surfactant classes include fatty acids, sulfates, sulfonates, and phosphate mono- and diesters of alcohols, alkylphenols, polyoxyethylene alcohols and polyoxyethylene alkylphenols, and carboxylates of polyoxyethylene alcohols and polyoxyethylene alkylphenols. These can be used in their acid form but are more typically used as salts, for example sodium, potassium or ammonium salts.

Cationic surfactants classes include polyoxyethylene tertiary alkylamines or alkenylamines, such as ethoxylated fatty amines, quaternary ammonium surfactants and polyoxyethylene alkyletheramines. Representative specific examples of such cationic surfactants include polyoxyethylene (5) cocoamine, polyoxyethylene (15) tallowamine, distearyldimethylammonium chloride, N-dodecylpyridine chloride and polyoxypropylene (8) ethoxytrimethylammonium chloride. Many cationic quaternary ammonium surfactants of diverse structures are known in the art to be useful in combination with herbicides and can be used in compositions contemplated herein.

Suitable emulsifying agents and wetting agents include, but are not limited to, ionic and nonionic types such as polyacrylic acid salts, lignosulphonic acid salts, phenolsulphonic or naphthalenesulphonic acids, products of polycondensation of

ethylene oxide with fatty alcohols, fatty acids or fatty amines, substituted phenols (especially alkylphenols or arylphenols), sulphonosuccinic acid ester salts, taurine derivatives (especially alkyl taurates), phosphoric esters of alcohols or products of polycondensation of ethylene oxide with phenols, esters of fatty acids with polyhydric alcohols, and derivatives having sulphate, sulphonate and phosphate groups, of the compounds above.

The composition of this invention may be made up as granules comprising 0.5 to 40%, preferably 2 to 30% by weight of the active compound of this invention as active ingredient; 1 to 20%, preferably 2 to 10% by weight of the surfactant; and 40 to 98.5%, preferably 20 to 96% by weight of solid carrier. Formulated into a dust, the composition may include 0.5 to 40%, preferably 1 to 35% by weight of the active ingredient; and 99.5 to 60%, preferably 99 to 65% by weight of finely divided solid carrier.

The composition of this invention may also be formulated into a paste comprising 0.1 to 20%, preferably 1 to 10% by weight of the active ingredient, 1 to 20%, preferably 2 to 10% by weight of surfactant; and 60 to 98.9%, preferably 80 to 97% by weight of paste base. In a wettable powder formulation, the composition typically includes 5 to 95%, preferably 10 to 50% by weight of the new compounds of this invention as active ingredient; 1 to 20%, preferably 5 to 10% by weight of surfactant; and 4 to 44%, preferably 40 to 85% by weight of solid carrier, the solid carrier being preferably ammonium sulfate.

The aqueous dispersions or emulsions may be prepared by dissolving the active ingredient in an organic solvent optionally containing wetting, dispersing or emulsifying agent(s) and then adding the mixture to water which may also contain wetting, dispersing or emulsifying agents(s). Suitable organic solvents are kerosene, cyclohexanone, methylethyl ketone, acetone, methanol, acetonitrile, and the like. The compositions may also be in the form of liquid preparations for use as dips or sprays which are generally aqueous dispersions or emulsions containing the active ingredient in the presence of one or more of wetting agent(s), dispersing agent(s), emulsifying agent(s) or suspending agent(s).

Typical liquid solutions include the active ingredient, a carrier, and optionally, a surface active agent. The dilute solutions of the present compositions generally contain about 0.1 to about 50 parts active ingredient, about 0.25 to about 50 parts carrier, and

about 0 to about 94 parts surface active agent, all parts being by weight based on the total weight of the composition. Similarly, the concentrated compositions typically include about 40 to about 95 parts active ingredient, about 5 to about 25 parts carrier, and about 0 to about 20 parts surface active agent.

Emulsifications are usually solutions of herbicides in water-immiscible or partially water-immiscible solvents as the carrier together with at least one surface active agent. Suitable solvents for the active ingredients of this invention include, but are not limited to, hydrocarbons and water-immiscible ethers, esters or ketones. The emulsification compositions generally contain from 5 to 95%, preferably 20 to 70% by weight of the active compound of this invention as active ingredient; 1 to 40%, preferably 5 to 20% by weight of surfactant; and 4 to 94%, preferably 10 to 75% by weight of liquid carrier.

Powders, broadcasting compositions and dusting compositions can be prepared by mixing or joint grinding of the active substances with a solid carrier.

Granules, e.g. coated, impregnated and homogeneous granules, can be prepared by binding the active compounds to solid carriers. Solid carriers are mineral earths such as silicic acids, silica gels, silicates, talc, kaolin, limestone, lime, chalk, bole, loess, clay, dolomite, diatomaceous earths, calcium sulfate and magnesium sulfate, magnesium oxide, ground synthetic materials, fertilizers, such as ammonium sulfate, ammonium phosphate, ammonium nitrate, ureas and vegetable products such as grain flour, tree bark meal, wood meal and nutshell meal, cellulose powder or other solid carriers.

The concentrations of the active compounds I in the ready-to-use preparations can be varied within wide ranges. The formulations in general contain 0.001 to 98% by weight, preferably 0.01 to 95% by weight, of at least one active compound. The active compounds are employed here in a purity of from 90% to 100%, preferably 95% to 100% (according to NMR spectrum).

The compounds I according to the invention can be formulated, for example, as follows:

I 20 parts by weight of a compound I are dissolved in a mixture which consists of 80 parts by weight of alkylated benzene, 10 parts by weight of the addition product of 8 to 10 mol of ethylene oxide to 1 mol of oleic acid N-monoethanolamide, 5 parts by weight of calcium salt of dodecylbenzenesulfonic acid and 5 parts by weight of

the addition product of 40 mol of ethylene oxide to 1 mol of castor oil. By pouring out and finely dispersing the solution in 100 000 parts by weight of water, an aqueous dispersion is obtained which contains 0.02% by weight of the active compound.

II 20 parts by weight of a compound I are dissolved in a mixture which consists of 40 parts by weight of cyclohexanone, 30 parts by weight of isobutanol, 20 parts by weight of the addition product of 7 mol of ethylene oxide to 1 mol of isooctylphenol and 10 parts by weight of the addition product of 40 mol of ethylene oxide to 1 mol of castor oil. By pouring the solution into 100 000 parts by weight of water and finely dispersing it, an aqueous dispersion is obtained which contains 0.02% by weight of the active compound.

III 20 parts by weight of a compound I are dissolved in a mixture which consists of 25 parts by weight of cyclohexanone, 65 parts by weight of a mineral oil fraction of boiling point 210 to 2805C and 10 parts by weight of the addition product of 40 mol of ethylene oxide to 1 mol of castor oil. By pouring the solution into 100 000 parts by weight of water and finely dispersing it, an aqueous dispersion is obtained which contains 0.02% by weight of the active compound.

IV 20 parts by weight of a compound I are well mixed with 3 parts by weight of the sodium salt of diisobutylnaphthalenesulfonic acid, 17 parts by weight of the sodium salt of a lignosulfonic acid from a sulfite waste liquor and 60 parts by weight of powdered silica gel and ground in a hammer mill. By finely dispersing the mixture in 20 000 parts by weight of water, a spray liquor is obtained which contains 0.1% by weight of the active compound.

V 3 parts by weight of a compound I are mixed with 97 parts by weight of finely divided kaolin. A dusting composition which contains 3% by weight of the active compound is obtained in this way.

VI 20 parts by weight of a compound I are intimately mixed with 2 parts by weight of calcium salt of dodecylbenzenesulfonic acid, 8 parts by weight of fatty alcohol polyglycol ether, 2 parts by weight of sodium salt of a phenol/urea/formaldehyde condensate and 68 parts by weight of a paraffinic mineral oil. A stable oily dispersion is obtained.

VII 1 part by weight of a compound I is dissolved in a mixture which consists of 70 parts by weight of cyclohexanone, 20 parts by weight of ethoxylated

isooctylphenol and 10 parts by weight of ethoxylated castor oil. A stable emulsion concentrate is obtained.

VIII 1 part by weight of a compound I is dissolved in a mixture which consists of 80 parts by weight of cyclohexanone and 20 parts by weight of Wettol® EM 31 (nonionic emulsifier based on ethoxylated castor oil). A stable emulsion concentrate is obtained.

The herbicidal compositions or the active compounds which contain the compound of the general formula I and/or their salts can be applied preemergence, postemergence or together with the seed of a crop plant. There is also the possibility of applying the herbicidal compositions or active compounds by applying seed of a crop plant pretreated with the herbicidal compositions or active compounds. If the active compounds are less tolerable to certain crop plants, application techniques can be used in which the herbicidal compositions are sprayed with the aid of spray equipment such that the leaves of the sensitive crop plants are not affected if possible, while the active compounds reach the leaves of undesired plants growing thereunder or the uncovered soil surface (post-directed, lay-by).

Depending on the aim of control, time of year, target plants and stage of growth, the application rates of active compound are 0.001 to 3.0, preferably 0.01 to 1.0, kg/ha of active substance (a.s.), more preferably 1 g to about 500 g per hectare; desirably from about 1 to about 125 g per hectare; more desirably from about 5 g to about 75 g per hectare as the active ingredient.

Compositions of this invention may also contain other active ingredients, for example fertilizers such as ammonium nitrate, urea, potash, and superphosphate; phytotoxicants and plant growth regulators; safeners; and pesticides. These additional ingredients may be used sequentially or in combination with the above-described compositions. For example, the plant(s) may be sprayed with a composition of this invention either before or after being treated with other active ingredients. Such sequential applications may be performed by applying the combination of active ingredients individually within a one day period or less, such as separate applications of the individual herbicides within less than 1 hour, less than 5 hours, less than 10 hours, less than 14 hours, or less than 17 hours.

Other optional components may be admixed with the present compositions to facilitate the application and/or effectiveness of the active ingredient. To this end,

optional components that may be added include antifoaming agents including silicone based antifoaming agents; thickening agents such as fumed silica; antimicrobial agents; antioxidants; buffers; dyes; perfumes; stabilizing agents; and antifreezing agents. Exemplary antifreezing agents include but are not limited to, glycols such as propylene glycol and ethylene glycol, N-methylpyrrolidone, cyclohexanone, and alcohols such as ethanol and methanol.

To widen the spectrum of action and to achieve synergistic effects, the compounds of the general formula I according to the invention can be mixed and applied together with numerous representatives of other herbicidal or growth-regulating active compound groups. For example, suitable mixture components are 1,2,4-thiadiazoles, 1,3,4-thiadiazoles, amides, aminophosphoric acids and their derivatives, aminotriazoles, anilides, (het)aryloxyalkanoic acids and their derivatives, benzoic acid and its derivatives, benzothiadiazinones, 2-aroyl-1,3-cyclohexanediones, hetaryl aryl ketones, benzylisoxazolidinones, meta-CF_3-phenyl derivatives, carbamates, quinolinecarboxylic acid and its derivatives, chloroacetanilides, cyclohexane-1,3-dione derivatives, diazines, dichloropropionic acid and its derivtives, dihydrobenzofurans, dihydrofuran-3-ones, dinitroanilines, dinitrophenols, diphenyl ethers, dipyridyls, halocarboxylic acids and their derivatives, ureas, 3-phenyluracils, imidazoles, imidazolinones, N-phenyl-3,4,5,6-tetrahydrophthalimides, oxadiazoles, oxiranes, phenols, aryloxy- or hetaryloxyphenoxypropionic acid esters, phenylacetic acid and its derivatives, phenylpropionic acid and its derivatives, pyrazoles, phenylpyrazoles, pyridazines, pyridinecarboxylic acid and its derivatives, pyrimidyl ethers, sulfonamides, sulfonylureas, triazines, triazinones, triazolinones, triazolecarboxamides and uracils.

Before the present compounds, compositions, and methods are disclosed and described, it is to be understood that this invention is not limited to specific synthetic methods of making that may of course vary. It is also to be understood that the terminology used herein is for the purpose of describing particular embodiments only and is not intended to be limiting.

Experimental:

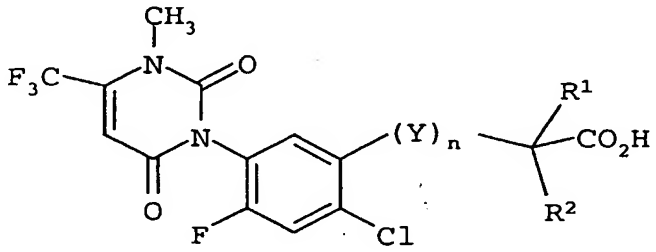
The following examples are put forth so as to provide those of ordinary skill in the art with a complete disclosure and description of how the compounds,

compositions, and methods claimed herein are made and evaluated, and are intended to be purely exemplary of the invention and are not intended to limit the scope of what the inventors regard as their invention. Efforts have been made to ensure accuracy with respect to numbers (e.g., amounts, temperature, etc.) but some errors and deviations should be accounted for. Unless indicated otherwise, percent is percent by weight given the component and the total weight of the composition, temperature is in °C or is at ambient temperature, and pressure is at or near atmospheric.

Preparation of Chemical Compounds:

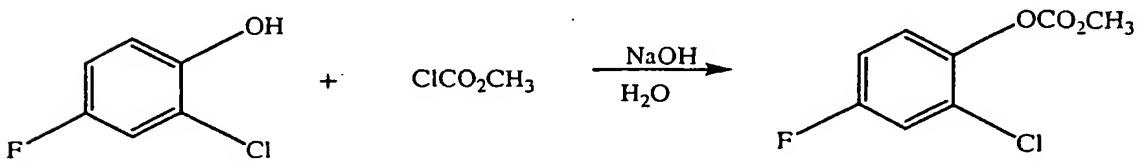
The compounds of the present invention were prepared using the following methodology:

A Preparation of intermediate compounds AR to AX



Compound	Y	n	R^1	R^2	mp (°C)
AR	O	1	H	CH_3	foam
AS	O	1	CH_3	CH_3	foam
AT	O	1	H	H	55-60
AU	S	1	CH_3	H	colorless oil
AV	NH	1	H	H	187-192
AW	none	0	H	H	186-186
AX	none	0	CH_3	H	173-175

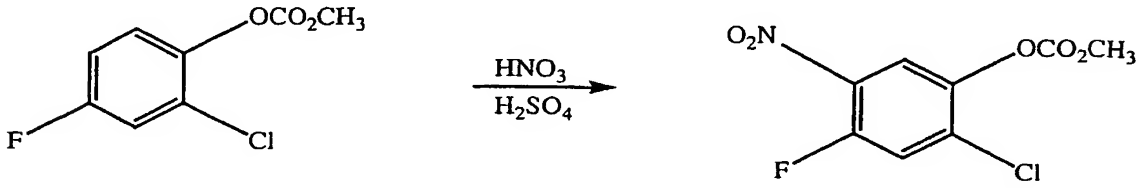
1. 2-Chloro-4-fluorophenol, O-methyl carbonate



A mixture of sodium hydroxide (14.7 g, 0.368 mol) and water is cooled to 10 °C and treated with 2-chloro-4-fluorophenol (45.0 g, 0.307 mol). The resultant mixture is

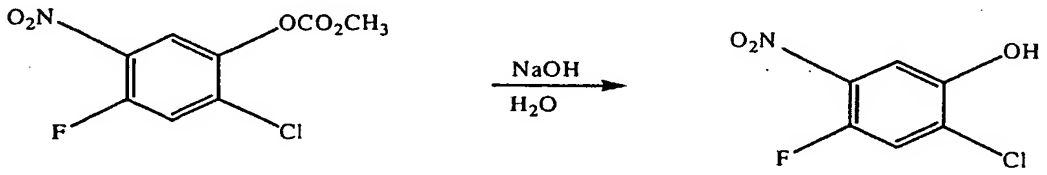
stirred 15 min at 10 °C and treated dropwise with methyl chloroformate (37.7 g, 0.399 mol) such that T < 10 °C. The resultant mixture is stirred two hr at 10 °C and two hr at room temperature. Filtration with water wash affords the title compound (57.7 g, 92 %) with consistent NMR spectral data.

2. 2-Chloro-4-fluoro-5-nitrophenol, O-methyl carbonate



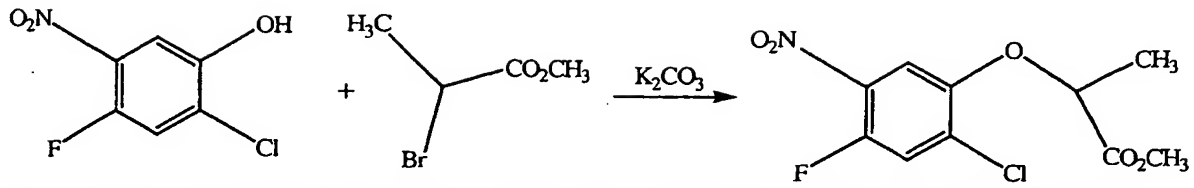
A mixture of 2-chloro-4-fluorophenol, O-methyl carbonate (57.0 g, 0.279 mol) and conc sulfuric acid (75 ml) is cooled and treated dropwise with a mixture of 90% nitric acid (19.3 g, 0.306 mol) and conc sulfuric acid (15 ml). The resultant mixture is stirred three hr at room temperature and poured into ice water. The suspension is filtered with water wash to afford the title compound (70.5 g, 100%) with consistent NMR spectral data.

3. 2-Chloro-5-fluoro-nitrophenol



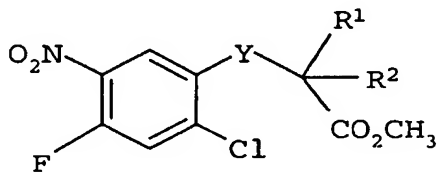
A mixture of 2-chloro-4-fluoro-5-nitrophenol, O-methyl carbonate (70.4 g, 0.282 mol), water and sodium hydroxide (13.5 g, 0.338 mol) is stirred three hr at reflux, cooled and diluted with additional water. The mixture is filtered through celite and the filtrate acidified to pH~6. The suspension is filtered with water wash to afford the title compound (54.8 g, 64.5%) with consistent NMR spectral data.

4. Intermediate Compound AA:



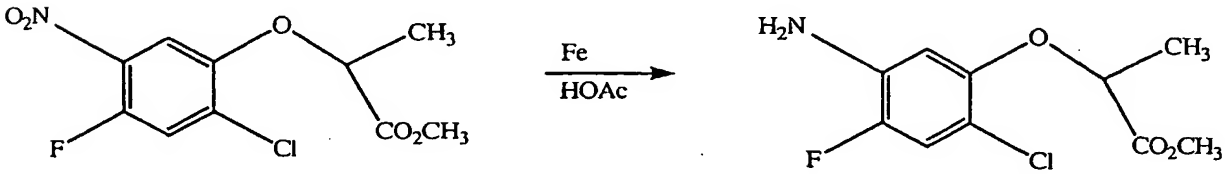
To a mixture of the phenol (10.0 g, .0522 mol), potassium carbonate (7.60 g, 0.0548 mol) and dimethylformamide (60 ml) is added dropwise methyl-2-bromopropionate (9.20 g, 0.0548 mol) at ambient temperature. The mixture is stirred two hr at 50 °C, cooled and diluted with ethyl acetate and water. The organic layer is saved and the aqueous layer extracted twice with ethyl acetate. The combined organic layers are washed with water and brine, dried over sodium carbonate and concentrated *in vacuo* to afford the title compound as an off-white solid (14.2 g, 98.1%) with consistent NMR spectral data.

Using the same procedure, the appropriate phenol, thiophenol or amine and the appropriate alkylating agent the following products are obtained.



Compound	Y	R^1	R^2	mp (°C)
AB	O	CH_3	CH_3	Not observed
AC	O	H	H	84-89
AD	S	CH_3	H	colorless syrup
AE	S	H	H	colorless oil
AF	NH	H	H	78-82

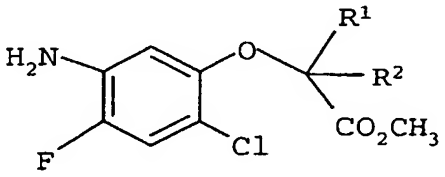
5. Intermediate Compound 1AG



A mixture of Compound AA (14.0 g, 0.0543 mol) and acetic acid (175 ml) is heated to 60 °C and treated with iron (14.1 g, 0.252mol) in portions. The resultant mixture is

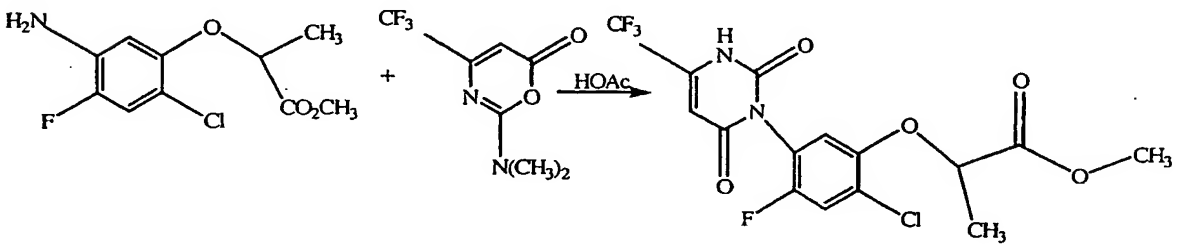
stirred three hr at 70 °C, cooled and diluted with water and ethyl acetate. The organic layer is saved and the aqueous layer is extracted with ethyl acetate. The combined organic layers are washed with water, aq sodium carbonate (1 M) and brine, dried over sodium sulfate and concentrated in vacuo to afford the title compound as a light brown oil (12.3 g, 98.6%) with consistent NMR spectral data.

Using the same procedure and the appropriate nitrobenzene, the following products are obtained.



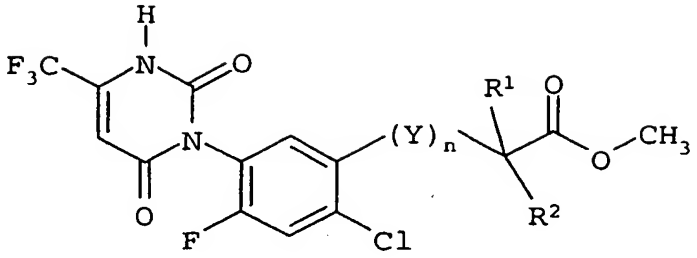
Compound	R^1	R^2	mp (°C)
AH	H	H	oil
AI	CH_3	CH_3	88-90

6. Intermediate Compound AJ



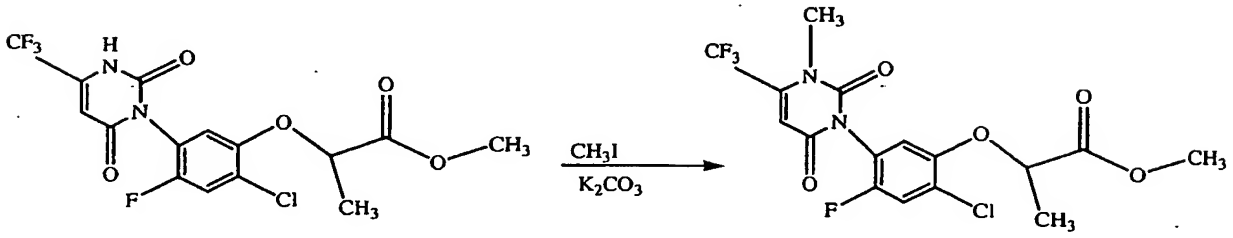
A mixture of Compound AG (20.0 g, 0.0475 mol), acetic acid (150 ml) and hydrochloric acid (70 ml) is treated with stannous chloride dihydrate (53.6 g, 0.237 mol). The mixture is stirred 1.5 hr at 80 °C, cooled and diluted with water. The mixture is extracted twice with ether. The combined organic extracts are washed with water and brine, dried and concentrated *in vacuo* to afford the title compound as an off-white foam (11.1, g, 66%) with consistent NMR and mass spectral data.

Using the same procedure and the appropriate aniline, the following products are obtained.



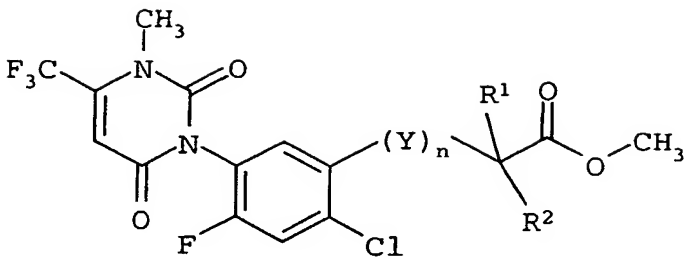
Compound	Y	n	R^1	R^2	mp (°C)
AK	O	1	H	H	158-162
AL	O	1	CH_3	CH_3	
AM	none	0	CH_3	H	

7. Intermediate Compound AN:



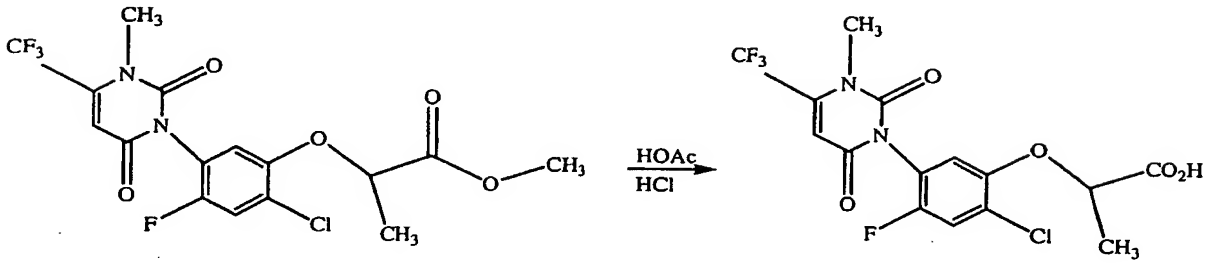
A mixture of Compound AJ (6.67 g, 0.0162 mol), dimethylformamide (50 ml) and potassium carbonate (2.36 g, 0.0170 mol) is stirred for 30 min at room temperature and treated with iodomethane (2.53 g, 0.0179 mol). The mixture is stirred for four hr and treated with additional potassium carbonate (0.50 g) and iodomethane (0.50 g). The resultant mixture is stirred overnight at room temperatues and partitioned between ice water and ether. The organic layer is washed with water and brine, dried over sodium sulfate and concentrated *in vacuo* to a glassy solid, which is chromatographed on silica gel (hexanes:ethyl acetate eluent) to afford the title compound as an oil (5.50 g, 79.7%) with consistent NMR and mass spectral data.

Using an identical procedure and the appropriate uracil substituted phenyl, the following products are obtained.



Compound	Y	n	R^1	R^2	mp (°C)
AO	O	1	H	H	153-156
AP	O	1	CH_3	CH_3	107-111
AQ	none	0	CH_3	H	

8. Intermediate Compound AR:

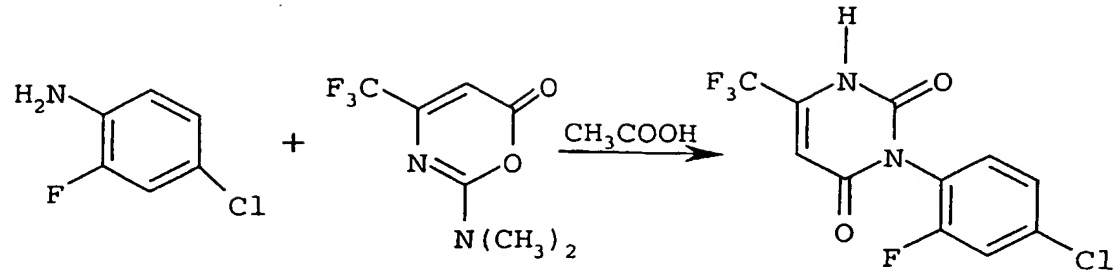


To a mixture of Compound AN (4.50 g, 0.0106 mol) and acetic acid (25 ml) is added a mixture of hydrochloric acid (25 ml) and water (25 ml). The resultant mixture is stirred four hr at reflux, cooled to room temperature and partitioned between ethyl acetate and water. The organic layer is saved and the aqueous layer extracted with ethyl acetate. The combined organic layers are washed three times with water and then brine, dried over sodium sulfate and concentrated in vacuo to afford the title compound as a foam (4.32 g, 99.3%) with consistent NMR and mass spectral data.

Using the same procedure and the appropriate ester, the intermediate products AS to AX are obtained.

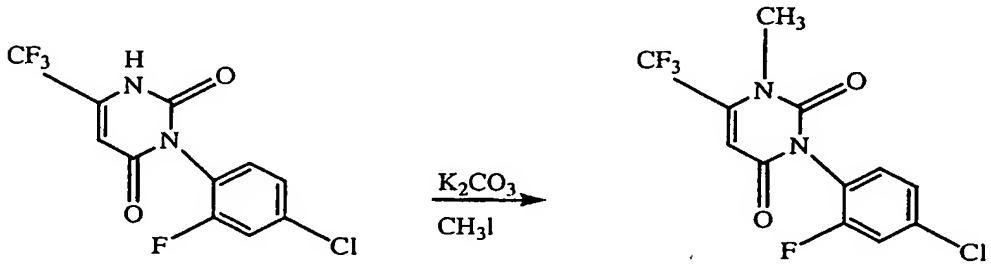
B. Preparation of intermediate compounds B

1. Intermediate Compound BA:



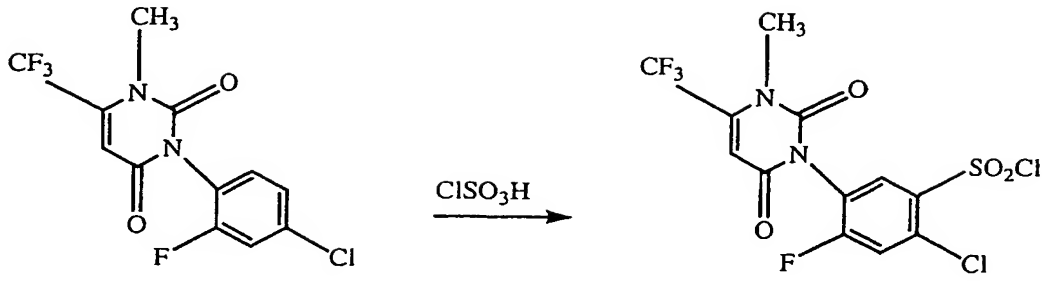
A mixture of 2-fluoro-3-chloroaniline (25.0 g, 0.172 mol), the oxazinone (35.8 g, 0.172 mol) and acetic acid (200 ml) is stirred overnight at reflux, cooled to room temperature and poured into ice water. The resulting suspension is extracted with ethyl acetate. The organic layer is washed with brine, dried and concentrated *in vacuo* to afford the title compound as a white solid (48.5 g, 91.3%) with mp = 186-187.5 °C.

2. Intermediate Compound BB:



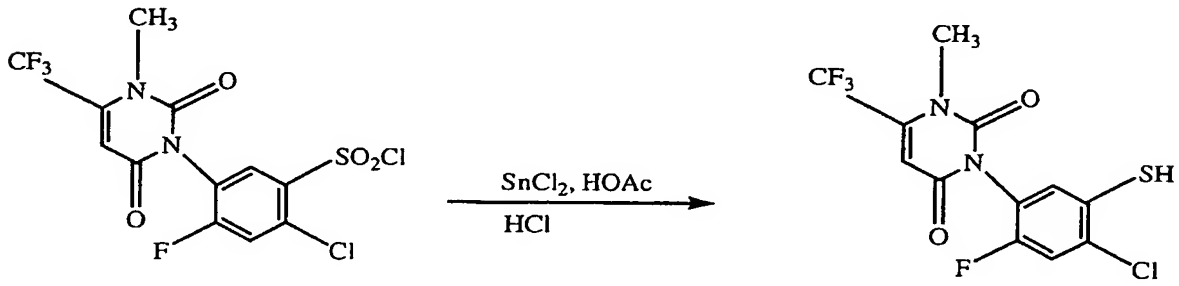
A mixture of Compound BA (48.5 g, 0.157 mol) and dimethylformamide (200 ml) is treated with potassium carbonate (32.5g, 0.236 mol) and iodomethane (14.7 ml, 0.236 mol). The resultant mixture is stirred two hr at 50 °C, cooled to room temperature and poured into ice water. The mixture is extracted three times with ethyl acetate. The combined organic extracts are washed with water and brine, dried and concentrated *in vacuo* to a solid, which is recrystallized from ether/hexanes to afford the title compound as an off-white solid (40.5 g, 80 %) with mp 80-86 °C.

3. Intermediate Compound BC:



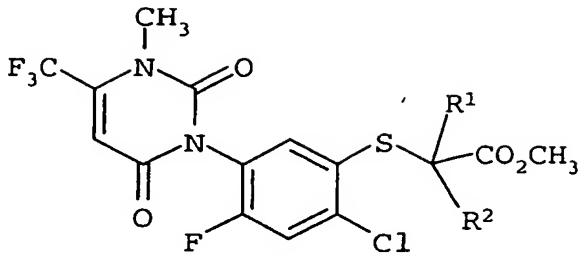
Chlorosulfonic acid (80 ml) is treated with Compound BB (40.5 g, 0.126 mol) and the resultant mixture is stirred 2.5 hr at 130 °C, cooled to room temperature and slowly poured onto crushed ice (~1.5 l). The suspension is filtered with water wash to afford the title compound as an off-white solid (47.3 g, 89%) with mp = 120-122 °C and consistent NMR and mass spectral data.

4. Intermediate Compound BD:



A mixture of Compound BC (20.0 g, 0.0475 mol), acetic acid (150 ml) and hydrochloric acid (70 ml) is treated with stannous chloride dihydrate (53.6 g, 0.237 mol). The mixture is stirred 1.5 hr at 80 °C, cooled and diluted with water. The mixture is extracted twice with ether. The combined organic extracts are washed with water and brine, dried and concentrated *in vacuo* to afford the title compound as an off-white foam (11.1, g, 66%) with consistent NMR and mass spectral data.

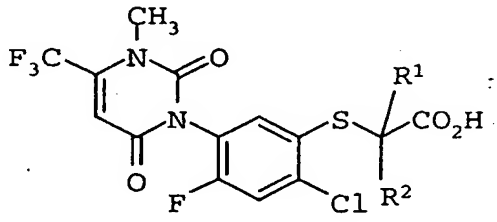
5. Intermediate compounds BE, BF and BG



Compound	R^1	R^2
BE	CH_3	H
BF	CH_3	CH_3
BG	H	H

Compound BD is reacted according to step 4 of route A, whereby intermediate compound BE is obtained. Using the same procedure compounds BF and BG are obtained.

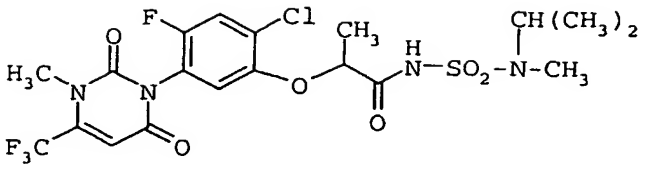
6. Intermediate compounds BH, BI and BJ



Compound	R^1	R^2
BH = AU	CH_3	H
BI	CH_3	CH_3
BJ	H	H

Compounds BE to BG can be hydrolyzed according to step 8 of route A, whereby intermediate compounds BH, BI and BJ are obtained.

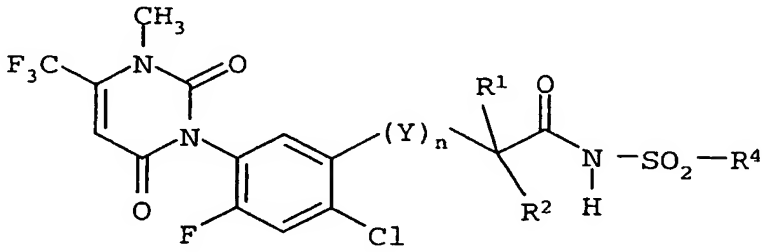
Example 1: Compound I.2a.415



A mixture of Compound 1AR (1.00 g, 0.00244 mol), N,N-carbonyldiimidazole (0.45 g, 0.00280 mol) and tetrahydrofuran (30 ml) is stirred four hr at room temperature. The sulfamide (0.43 g, 0.00280 mol) and DBU (0.43 g, 0.00280 mol) are added and the resultant mixture is stirred overnight at room temperature. The mixture is diluted with ethyl acetate and washed twice with hydrochloric acid (1.0 N). The organic layer is saved and the combined acid layers back-extracted with ethyl acetate. The combined organic layers are washed with brine, dried over sodium sulfate and concentrated *in vacuo* to afford the title compound as a foam with consistent NMR and mass spectral data.

Examples 2 to 25:

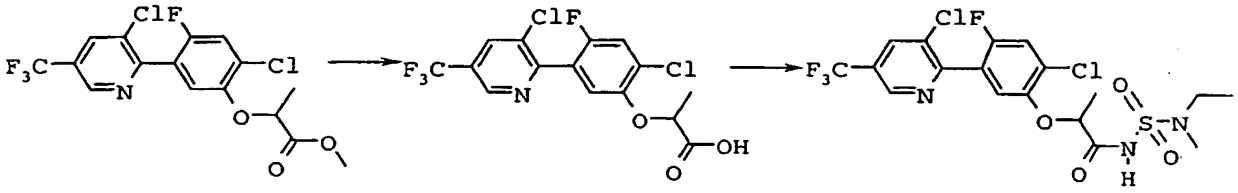
Using an essentially identical procedure and the appropriate carboxylic acid and sulfamide the following compounds are obtained.



Compound	Y	n	R^1	R^2	R^4	mp (°C)
2	O	1	CH_3	H	$N(CH_3)_2$	177-180
3	O	1	CH_3	H	$N(CH_3)Ph$	foam
4	O	1	CH_3	CH_3	$N(CH_3)_2$	foam
5	O	1	H	H	$N(CH_3)_2$	foam
6	O	1	H	H	$N(CH_3)Ph$	foam
7	O	1	H	H	$N(CH_3)CH(CH_3)_2$	55-62
8	O	1	H	H	$CH(CH_3)_2$	foam
9	S	1	CH_3	H	$CH(CH_3)_2$	white foam
10	S	1	CH_3	H	$N(CH_3)_2$	white foam

Compound	Y	n	R^1	R^2	R^4	mp (°C)
11	S	1	CH_3	H	$N(CH_3)CH(CH_3)_2$	colorless oil
12	S	1	CH_3	H	$N(CH_3)Ph$	colorless syrup
13	S	1	H	H	$CH(CH_3)_2$	85-90
14	S	1	H	H	$N(CH_3)_2$	90-102
15	S	1	H	H	$N(CH_3)CH(CH_3)_2$	164-173
16	S	1	H	H	$N(CH_3)Ph$	85-90
17	NH	1	H	H	$CH(CH_3)_2$	236-237
18	NH	1	H	H	$N(CH_3)_2$	218-220
19	NH	1	H	H	$N(CH_3)Ph$	foam
20	none	0	H	H	$N(CH_3)_2$	foam
21	none	0	H	H	$N(CH_3)CH(CH_3)_2$	foam
22	none	0	H	H	$N(CH_3)Ph$	foam
23	none	0	CH_3	H	$N(CH_3)Ph$	192-193
24	none	0	CH_3	H	$N(CH_3)CH(CH_3)_2$	196-198
25	none	0	CH_3	H	$N(CH_3)_2$	191-192.5

Example 26: N-Ethyl-N-methyl sulfamic acid-[2-(2-chloro-5-(3-chloro-5-trifluoromethylpyridin-2-yl)-4-fluorophenoxy)propionyl] amide



Step 1:

1.3 g (0,0032 mol) of methyl (2-(2-chloro-5-(3-chloro-5-trifluoromethylpyridin-2-yl)-4-fluorophenoxy)-propionate (obtained according to US 5,783,522) are stirred with a solution of BBr_3 (1M, 11.5 ml) at 0°C for 4 hours. The reaction mixture is poured into ice-cold water followed by extraction with dichloromethane. The solvent is evaporated to yield 1.2 g of 2-((2-chloro-5-(3-chloro-5-trifluoromethylpyridin-2-yl)-4-fluoro)phenoxy)-propionic acid.

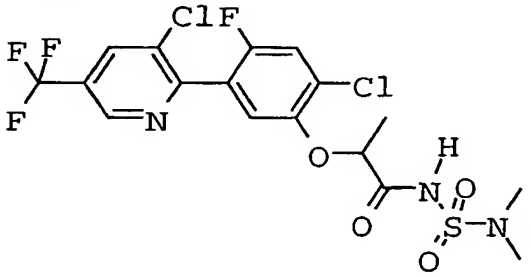
Step 2:

To 1.2 g (3.2 mmol) of 2-((2-chloro-5-(3-chloro-5-trifluoromethylpyridin-2-yl)-4-fluoro)phenoxy)-propionic acid, are added 25 ml of thionylchloride. The mixture is refluxed for 3 hours. Excessive thionylchloride is evaporated under reduced pressure to yield 1.3 g of a crude product which is used without further purification. 0.4 g (1.0

mmol) of said crude product in 20 ml of dichloromethane are stirred with 0,15 g (1.1 mmol) of N-ethyl-N-methylsulfamic acid amide, 0.24 g (2 mmol) of triethylamine and a catalytic amount of 4-dimethylaminopyridine for 2 days. The reaction mixture is washed with aqueous hydrochloric acid (10% strength by weight) and the organic phase is dried over magnesium sulfate. After concentration under reduced pressure the residue is purified by silica gel chromatography (cyclohexane/ethyl acetate = 4/1) to give 0.18 g of the title compound. Melting-point: 116-119°C.

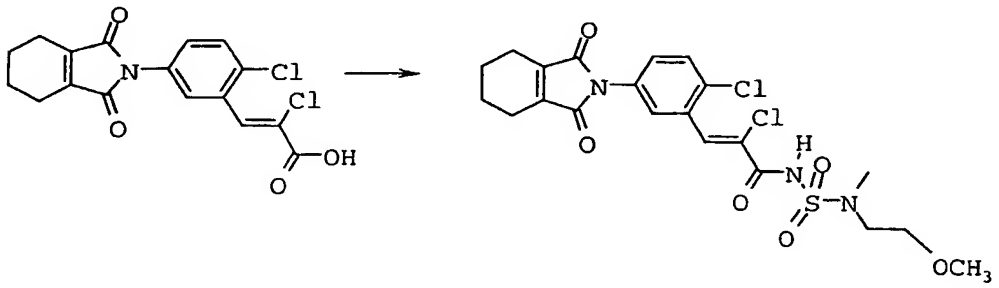
Example 27: N,N-dimethyl sulfamic acid-[2-(2-chloro-5-(3-chloro-5-trifluoromethylpyridin-2-yl)-4-fluorophenoxy)propionyl] amide

Using the method of Example 26 the following compound is prepared:



Melting point: 132 – 133 °C.

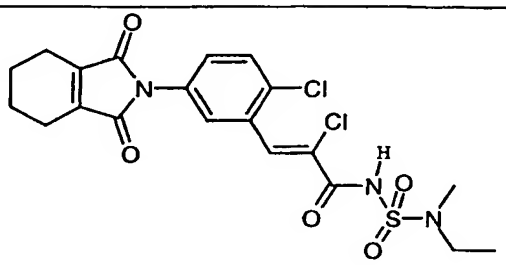
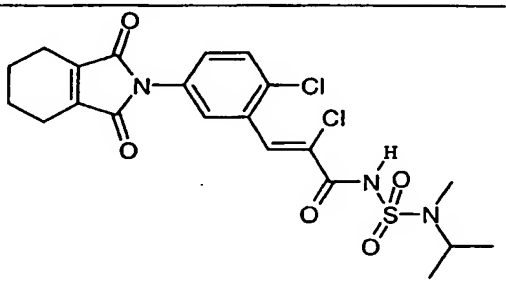
Example 28: N-((2-methoxy)ethyl)-N-methyl sulfonic acid-[(2-chloro-3-(2-chloro-5-(N-(3,4,5,6-tetrahydrophthalimido))phenylacryloyl)] amide



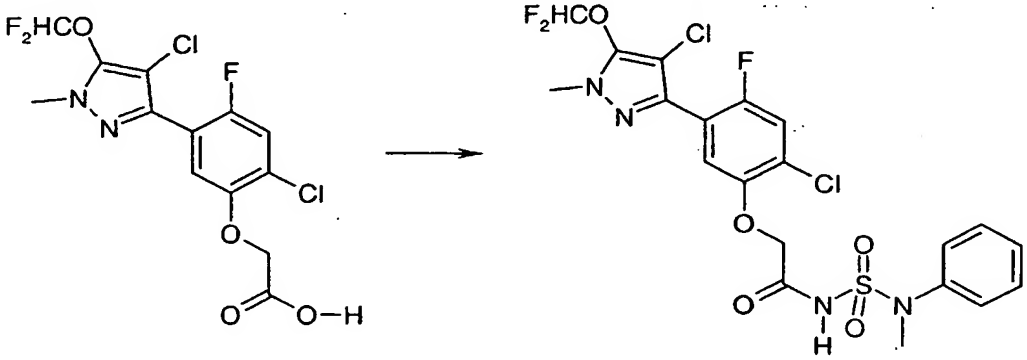
1.5 g of 2-chloro-3-(2-chloro-5-(N-(3,4,5,6-tetrahydrophthalimido))phenyl)propenoic acid (CAS-Nr. 175156-71-5, obtained similarly to the process described in EP 0300387) and 50 ml of thionylchloride are refluxed for 3 hours and then the reaction mixture is evaporated to dryness. 0.53 g (1.4 mmol) of the resulting acid chloride in 15 ml of dichloromethane are mixed with 0.20 g of N-methyl-N-(2-(methoxy)ethyl)sulfamic acid amide and 0.3 g (3.1 mmol) of triethylamine and a

catalytic amount of 4-dimethylaminopyridine and reacted in a manner according to the procedure described in Example 26. After work-up 0.1 g of the title compound are obtained. Melting-point 110°C.

Using an essentially similar procedure and the appropriate sulfamide the compounds of examples 29 and 30 were obtained.

Example		melting point [°C]
29		180-182
30		178-179

Example 31: N-methyl-N-phenyl sulfamic acid [2-(2-chloro-5-(4-chloro-5-difluoromethoxy-1-methyl-pyrazol-3-yl)-4-fluoro)-phenoxy)acetyl] amide

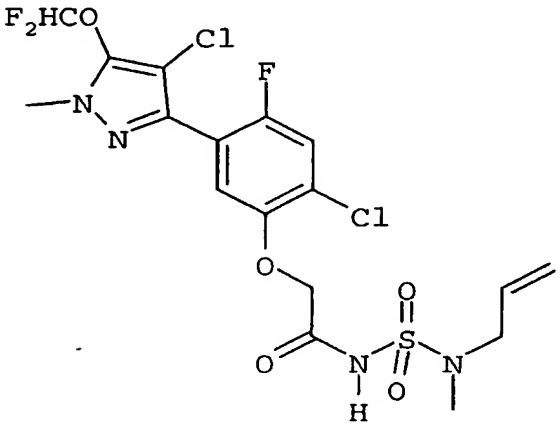


To 0.5 g (1.3 mmol) of 2-(2-chloro-5-(4-chloro-5-difluoromethoxy-1-methyl-pyrazol-3-yl)-4-fluorophenoxy acetic acid (CAS-Nr. 129630-17-7, EP 361114) in 50 ml of dichloromethane are added 0.13 ml (1,56 mmol) of oxalyl chloride. The mixture is refluxed until the gas evolution ceased. The reaction mixture is concentrated and the residue is dissolved in 50 ml of dicloromethane and 0.51 ml (3.64 mmol) of triethylamine. 0.266 g N-methyl-N-phenyl-sulfamic acid amide and a catalytic amount

of 4-dimethylaminopyridine are added and the mixture is reacted similarly to the procedure described in Example 26. Work-up yield 0.98 g of the title compound. ^{1}H-NMR (400 MHz, $CDCl_3$, [ppm]) δ: 9.0 (br. s, 1H), 7.5-7.2 (m, 6H), 7.1 (d, 1H), 6.7 (t, 1H), 4.6 (s, 2H), 3.8 (s, 3H), 3.5 (s, 3H)

Example 32: N-methyl-N-propen-3-yl sulfamic acid [2-(2-chloro-5-(4-chloro-5-difluoromethoxy-1-methyl-pyrazol-3-yl)-4-fluoro)-phenoxy)acetyl] amide

Using an essentially similar procedure as in Example 31 and the N-methyl-N-propen-3-yl sulfamide the compound of example 32 is prepared:



^{1}H-NMR (400 MHz, $CDCl_3$ [ppm]) δ: 9.0 (br. s, 1H), 7.3 (d, 1H), 7.1 (d, 1H), 6.7 (t, 1H), 5.8 (m, 1H), 5.3-5.2 (m, 2H), 4.6 (s, 2H), 4.0 (d, 2H), 3.9 (s, 3H), 3.0 (s, 3H).

Herbicidal Testing

Test compounds described in Table 2b were used in herbicidal testing.

1. Postemergence Herbicidal Evaluation of Test Compounds (POST)

Postemergence herbicidal activity of the compounds of the present invention is demonstrated by the following tests wherein a variety of dicotyledonous and monocotyledonous plants (described in Table 2a) are treated with test compounds (described in Table 2b). In the tests, seedling plants were grown in jiffy flats for about

two weeks. The test compounds were dispersed in 50/50 acetone/water mixtures containing 0.5% TWEEN®20, a polyoxyethylene sorbitan monolaurate sufactant of Atlas Chemical Industries, in sufficient quantities to provide the equivalent of about 0.0157 kg to about 0.250 kg per hectare of active compound when applied to the plants through a spray nozzle operating at 40 psi for a predetermined time. After spraying, the plants were placed on greenhouse benches and cared for in accordance with conventional greenhouse procedures. One and two weeks after treatment (WAT), the seedling plants were examined and rated according to the rating system set forth below (Table 2c), with the results as shown in Table 2d.

2. Preemergence Herbicidal Evaluation of Test Compounds (PRE)

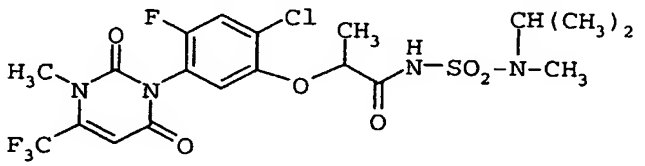
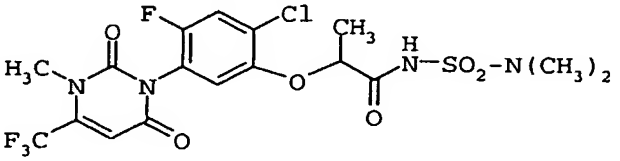
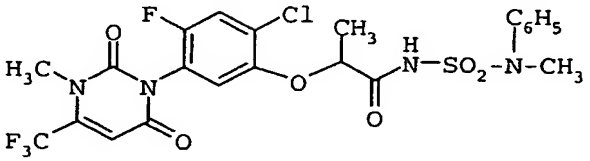
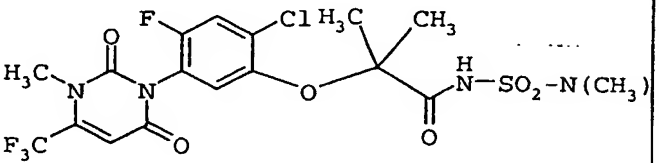
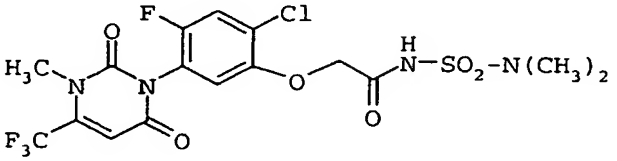
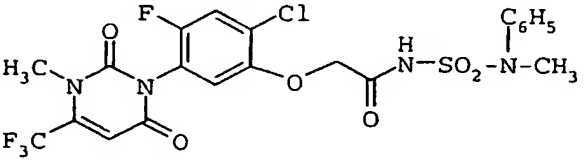
The preemergence herbicidal activity of the test compounds of the present invention is exemplified by the following tests in which the seeds of a variety of monocotyledonous and dicotyledonous plants were separately mixed with potting soil and planted on top of approximately one inch of soil in separate pint cups. After planting, the cups were sprayed with the selected aqueous acetone solution containing test compound in sufficient quantity to provide the equivalent of about 0.0157 kg to about 0.250 kg per hectare of test compound per cup. The treated cups were then placed on greenhouse benches, watered and cared for in accordance with conventional greenhouse procedures. Approximately three weeks after treatment (WAT), the tests were terminated and each cup is examined and rated according to the rating system provided in Table 2c with the results as shown in Table 2d.

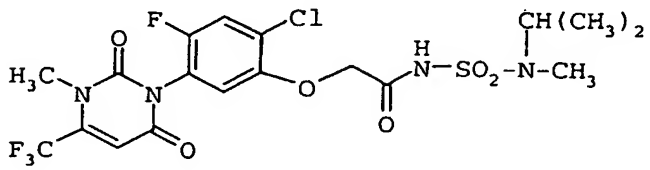
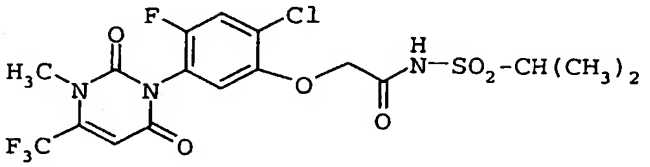
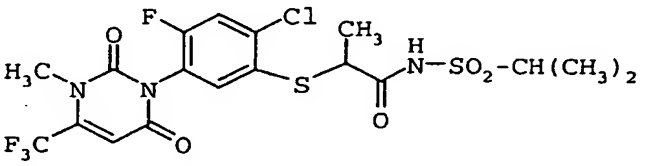
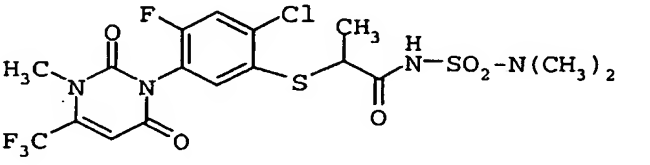
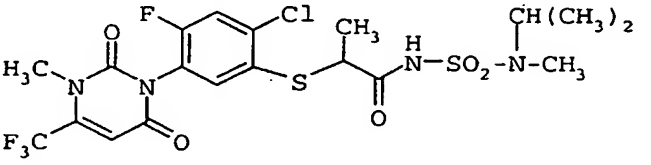
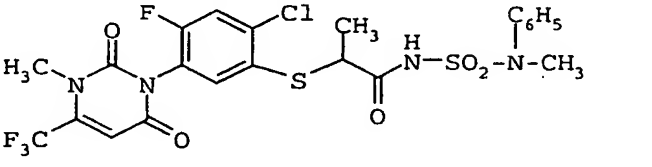
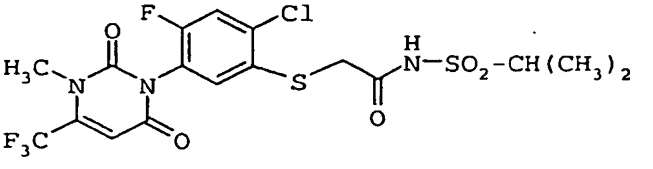
Table 2a: Plants Tested

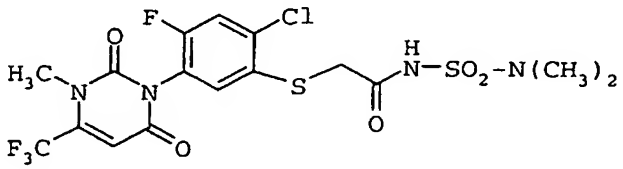
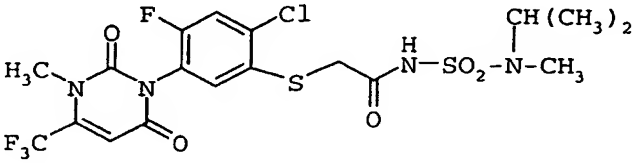
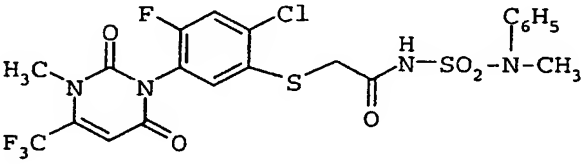
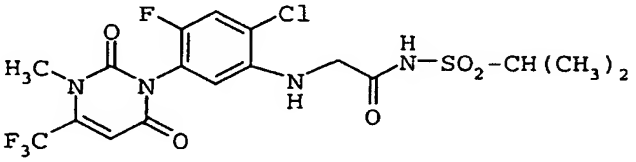
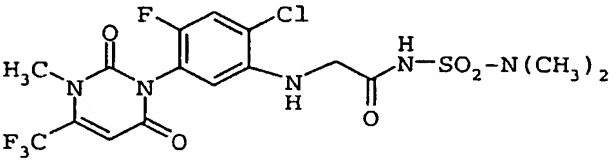
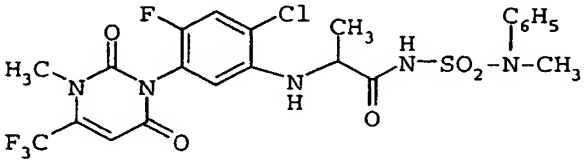
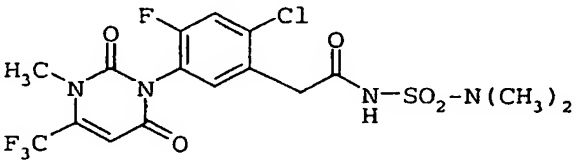
Bayer Code	Common Name	Scientific Name
ABUTH	Velvetleaf	*Abutilon threophrasti*
AMATA	Waterhemp, Common	*Amaranthus rudis*
AMBEL	Ragweed, Common	*Ambrosia artemisifolia*
CHEAL	Lambsquarters, Common	*Chenopodium album*
IPOHE	Morningglory, Ivyleaf	*Ipomea hederacea*
STEME	Chickweed, Common	*Stellaria media*
XANST	Cocklebur	*Xanthium strumarium*
ALOMY	Blackgrass	*Alopecurus myosuroides*
DIGSA	Crabgrass, Large	*Digitaria sanguinalis*
ECHCG	Barnyardgrass	*Echinocloa cruss-galli*
SETVI	Foxtail, Green	*Setaria viridis*

GLXMA	Soybeans	*Glycine max*
ORYSA	Rice	*Oryza sativa*
TRZAW	Wheat, Winter	*Triticum aestivum*
ZEAMX	Corn, Field	*Zea mays*

Table 2b: Compounds Tested

Test Compound	Chemical Structure	Chemical Name
1		Isopropyl-methyl-sulfa,ic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-propionyl}-amide
2		Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-propionyl}-amide
3		Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-propionyl}-amide
4		Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-2-methyl-propionyl}-amide
5		Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-acetyl}-amide
6		Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-acetyl}-amide

Test Compound	Chemical Structure	Chemical Name
7		Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-acetyl}-amide
8		Propane-2-sulfonic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-acetyl}-amide
9		Propane-2-sulfonic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide
10		Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide
11		Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide
12		Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide
13		Propane-2-sulfonic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-acetyl}-amide

Test Compound	Chemical Structure	Chemical Name
14		Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-acetyl}-amide
15		Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-acetyl}-amide
16		Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-acetyl}-amide
17		Propane-2-sulfonic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylamino]-acetyl}-amide
18		Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylamino]-acetyl}-amide
19		Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylamino]-acetyl}-amide
20		Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-acetyl}-amide

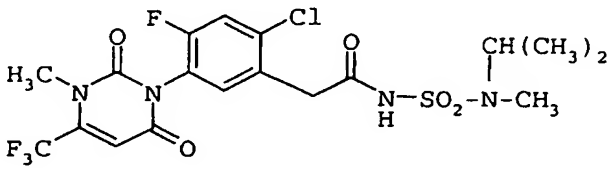
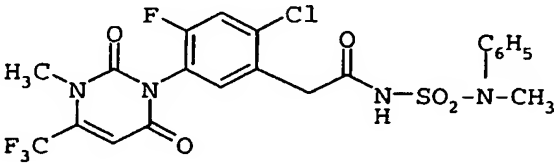
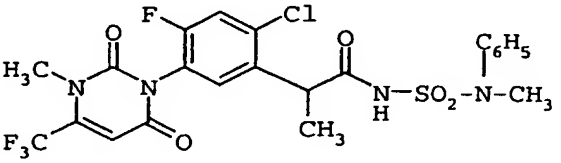
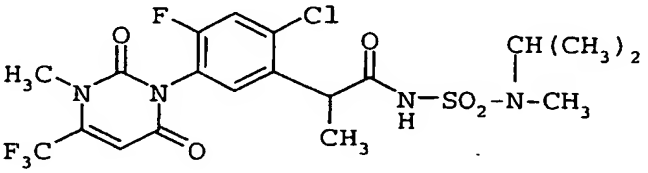
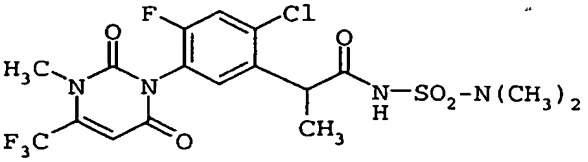
Test Compound	Chemical Structure	Chemical Name
21		Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-acetyl}-amide
22		Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-acetyl}-amide
23		Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-propionyl}-amide
24		Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-propionyl}-amide
25		Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-propionyl}-amide

Table 2c: Herbicide Rating Scale

Results of herbicide evaluation are expressed on a rating scale of 0 to 9. The scale is based upon a visual observation of plant stand, vigor, malformation, size, chlorosis and overall plant appearance as compared with a control.

Rating	Meaning	%Control Compared to Check
9	Complete kill	100
8	Approaching complete kill	91-99
7	Good herbicidal effect	80-90
6	Herbicidal effect	65-79
5	Definite injury	45-64
4	Injury	30-44

3	Moderate effect	16-29
2	Slight effect	6-15
1	Trace effect	1-5
0	No effect	0

Table 3a: Herbicidal Evaluation Results for POST

		POST 2 WAT																1 WAT		
Test Cpd	Rate g/ha	ABUTH	AMATA	AMBEL	CHEAL	IPOHE	STEME	XANST	ALOMY	DIGSA	ECHCG	SETVI	GLXMA	ORYSA	TRZAW	ZEAMX	GLXMA	ORYSA	TRZAW	ZEAMX
9	125																			
	64																			
	32	9	9	9	8	9	9	9	6	8	9	9	8	7	8	9	8	8	8	8
	16	9	9	9	8	9	9	9	5	8	9	9	8	6	6	8	8	8	8	8
	8	9	9	9	8	9	8	9	4	8	9	9	8	6	5	8	8	7	8	8
10	125																			
	64																			
	32	9	9	9	9	9	9	9	6	8	9	9	8	7	8	8	8	8	8	8
	16	9	9	9	8	9	8	9	6	8	9	9	8	6	6	8	8	7	8	8
	8	9	9	9	8	9	8	9	5	8	8	9	8	6	5	8	8	6	8	8
11	125																			
	64																			
	32	9	9	9	8	9	9	9	6	9	9	9	9	7	7	8	8	8	8	8
	16	9	9	9	9	9	8	9	5	8	9	9	8	6	7	8	8	7	8	8
	8	9	9	9	8	9	8	9	5	8	9	9	8	6	5	8	8	7	8	8
12	125																			
	64																			
	32	9	9	9	9	9	8	9	5	8	9	9	8	6	7	9	8	7	8	8
	16	9	9	9	9	9	8	9	5	8	8	9	8	5	6	8	8	7	8	8
	8	9	9	9	8	9	8	9	4	7	6	7	7	4	5	5	8	6	7	7
8	64																			
	32																			
	16	9	9	8	8	9	6	9	3	8	8	8	8	5	4	8	8	8	7	8
	8	9	9	8	8	9	5	9	2	3	7	8	8	5	3	6	8	6	6	6
13	125																			
	64																			
	32																			
	16	9	9	9	8	9	8	9	3	8	6	8	8	6	4	8	8	7	7	8
	8	9	9	9	8	9	8	9	3	6	5	8	8	5	4	8	8	6	7	8
5	125																			
	64																			
	32																			
	16	9	9	9	9	9	8	9	3	8	8	8	8	7	4	7	8	8	7	8
	8	9	9	8	8	9	3	9	2	7	8	8	8	4	4	7	8	5	7	8
14	125																			
	64																			
	32																			
	16	9	9	9	8	9	8	9	3	7	7	8	8	6	5	8	8	8	8	8
	8	9	9	8	8	9	8	9	2	7	7	8	8	4	4	8	8	7	7	8
20	125																			
	64																			
	32																			
	16	9	9	8	8	9	8	9	3	6	8	7	8	4	4	8	8	7	8	8
	8	9	9	8	8	9	5	9	3	4	8	7	8	3	3	8	8	7	7	8
25	250																			
	125																			
	64																			
	32	9	9	9	8	9	9	9	7	8	9	9	9	7	8	8	8	8	8	8
	16	9	9	8	8	9	8	9	7	8	9	9	9	7	8	8	8	8	8	8
	8	9	9	8	8	9	8	9	5	8	8	8	9	5	8	8	8	7	8	8
21	125																			
	64																			
	32																			
	16	9	9	9	8	8	3	9	3	4	8	8	7	2	3	8	8	7	7	8

		POST 2 WAT																1 WAT		
Test Cpd	Rate g/ha	ABUTH	AMATA	AMBEL	CHEAL	IPOHE	STEME	XANST	ALOMY	DIGSA	ECHCG	SETVI	GLXMA	ORYSA	TRZAW	ZEAMX	GLXMA	ORYSA	TRZAW	ZEAMX
	8	9	9	8	8	8	2	9	2	5	8	7	5	2	1	7	8	6	4	8
24	125																			
	64																			
	32																			
	16	9	9	9	8	9	8	9	4	8	9	9	8	5	8	8	8	8	8	8
	8	9	9	9	8	8	8	9	3	6	8	8	8	4	8	8	8	8	8	8
15	125																			
	64																			
	32																			
	16	9	9	9	8	9	8	9	3	7	8	9	8	5	4	8	8	7	7	8
	8	9	9	9	8	9	4	9	2	4	7	8	8	3	3	8	8	6	7	8
7	125																			
	64																			
	32																			
	16	9	9	9	8	9	6	8	3	8	8	9	8	3	2	7	8	7	7	8
	8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	125																			
	64																			
	32																			
	16	9	9	9	8	9	5	9	3	4	7	8	8	2	3	8	8	6	6	8
	8	9	9	8	8	9	2	9	2	3	6	4	6	1	2	6	8	5	5	8
23	125																			
	64																			
	32																			
	16	9	9	9	7	9	8	9	3	4	8	7	8	3	4	8	8	7	8	8
	8	9	9	9	6	9	4	9	2	4	4	7	8	3	3	6	8	5	7	7
16	125																			
	64																			
	32																			
	16	9	9	9	8	9	6	9	2	8	8	9	8	5	3	8	8	7	7	8
	8	9	9	9	7	9	4	9	1	7	7	9	8	5	2	7	8	6	7	8
6	125																			
	64																			
	32																			
	16	9	9	9	8	9	5	9	2	5	7	7	8	3	2	7	8	7	7	8
	8	9	9	9	6	9	3	8	1	4	6	6	7	1	1	8	8	6	6	8
17	125																			
	64																			
	32																			
	16	9	9	9	9	9	5	9	5	8	8	8	8	4	6	8	8	7	8	8
	8	9	9	9	6	9	4	9	4	8	6	8	8	3	5	8	8	5	7	8
18	125																			
	64																			
	32																			
	16	9	9	9	9	9	8	9	5	8	8	8	8	7	5	8	8	5	8	8
	8	9	9	9	8	9	6	9	4	8	7	8	8	5	4	7	8	5	8	8
1	125																			
	64																			
	32																			
	16	9	9	9	9	9	9	9	6	9	9	9	9	6	8	8	8	7	8	8
	8	9	9	9	8	9	8	9	4	9	9	9	9	5	6	8	8	6	8	8
4	125																			
	64																			
	32																			
	16	9	9	9	8	9	4	9	5	8	8	8	7	6	5	8	8	6	8	8
	8	9	9	9	8	9	4	9	4	8	8	8	5	4	4	7	8	6	8	8
2	125																			
	64																			
	32																			
	16	9	9	9	8	9	8	9	7	9	9	9	8	7	8	9	8	7	8	8

		POST 2 WAT																1 WAT		
Test Cpd	Rate g/ha	ABUTH	AMATA	AMBEL	CHEAL	IPOHE	STEME	XANST	ALOMY	DIGSA	ECHCG	SETVI	GLXMA	ORYSA	TRZAW	ZEAMX	GLXMA	ORYSA	TRZAW	ZEAMX
	8	9	9	9	8	9	7	9	6	8	8	8	8	5	6	8	8	7	8	8
3	125																			
	64																			
	32																			
	16	9	9	9	9	9	8	9	5	8	8	9	9	5	7	8	8	7	8	8
	8	9	9	9	9	9	8	9	4	8	6	8	8	3	5	8	8	6	7	8
	4	9	9	8	8	9	7	9	3	6	5	7	8	1	3	6	8	4	6	7
19	125																			
	64																			
	32																			
	16	9	9	9	9	9	7	9	3	8	7	8	9	3	5	8	8	5	8	8
	8																			
	4	9	9	8	8	9	6	9	2	6	4	5	8	2	3	4	8	4	7	6

Table 3b: Herbicidal Evaluation Results for PRE

		PRE 3 WAT														
Test Cpd.	Rate g/ha	ABUTH	AMATA	AMBEL	CHEAL	IPOHE	STEME	XANST	ALOMY	DIGSA	ECHCG	SETVI	GLXMA	ORYSA	TRZAW	ZEAMX
9	125	9	9	9	9	9	9	9	1	9	8	7	1	3	1	1
	64	9	9	8	9	8	8	3	0	8	3	2	0	7	0	0
	32	9	9	5	7	6	7	1	0	6	2	1	0	3	0	0
	16	8	8	6	6	2	6	0	0	2	0	0	0	0	0	0
	8															
10	125	9	9	9	9	9	9	8	1	8	6	6	1	2	0	1
	64	9	8	9	8	7	8	2	0	6	5	2	0	1	0	0
	32	8	8	6	8	0	8	0	0	5	1	1	0	0	0	0
	16	3	8	5	5	0	6	0	0	2	0	0	0	0	0	0
	8															
11	125	9	9	9	9	9	8	9	0	8	5	8	2	5	0	0
	64	9	9	7	9	6	8	1	0	7	2	5	1	4	0	0
	32	9	8	6	9	3	7	0	0	6	0	2	0	4	0	0
	16	7	9	3	6	0	2	0	0	5	0	0	0	3	0	0
	8															
12	125	9	9	9	9	0	9	9	0	7	4	5	1	4	0	0
	64	9	9	7	9	2	7	X	0	5	2	3	0	4	0	0
	32	9	8	5	6	2	3	0	0	3	0	2	0	0	0	0
	16	8	8	1	7	0	6	0	0	0	0	0	0	0	0	0
	8															
8	64	9	9	9	9	8	3	8	0	7	0	4	0	5	0	0
	32	9	8	9	8	2	0	2	0	5	0	2	0	5	0	0
	16	8	8	4	8	0	0	1	0	2	0	0	0	0	0	0
	8	5	6	2	6	0	0	0	0	2	0	0	0	0	0	0
13	125															
	64	9	9	8	9	9	8	6	0	5	0	2	0	5	0	0
	32	8	9	7	8	9	5	1	0	2	0	5	0	3	0	0
	16	8	8	7	8	1	5	1	0	2	0	0	0	2	0	0
	8	6	8	6	3	0	2	0	0	0	0	0	0	0	0	0
5	125															
	64	9	9	8	9	8	8	5	0	7	3	5	0	6	0	0
	32	9	8	8	9	7	6	2	0	5	0	0	0	6	0	0

	PRE 3 WAT															
Test Cpd.	Rate g/ha	ABUTH	AMATA	AMBEL	CHEAL	IPOHE	STEME	XANST	ALOMY	DIGSA	ECHCG	SETVI	GLXMA	ORYSA	TRZAW	ZEAMX
	16	8	8	5	7	2	4	1	0	3	0	0	0	0	0	0
	8	6	5	4	7	0	2	0	0	0	0	0	0	0	0	0
14	125															
	64	9	9	8	9	8	9	1	1	5	3	4	0	7	0	0
	32	9	8	7	9	5	6	0	0	2	3	2	0	4	0	0
	16	5	8	6	3	3	5	0	0	0	0	0	0	0	0	0
	8	6	7	3	2	0	4	0	0	0	0	0	0	0	0	0
20	125	9	9	9	9	9	9	9	2	6	4	4	0	7	0	0
	64	9	9	8	9	6	8	8	0	5	3	2	0	5	0	0
	32	9	8	7	9	7	8	3	0	3	2	0	0	0	0	0
	16	7	8	2	2	3	5	0	0	3	2	0	0	0	0	0
	8															
25	250															
	125	9	9	9	9	9	9	9	8	9	9	9	9	8	3	2
	64	9	9	9	9	8	9	7	5	9	8	7	5	8	1	0
	32	9	9	7	8	3	8	3	2	7	7	5	0	4	0	0
	16	9	8	6	8	0	8	3	0	6	2	3	0	2	0	0
	8															
21	125															
	64	9	8	7	9	5	0	4	0	0	0	2	0	0	0	0
	32	9	8	6	8	0	0	0	0	2	0	0	0	0	0	0
	16	9	8	3	7	0	0	0	0	0	0	0	0	0	0	0
	8	0	6	0	1	0	0	0	0	0	0	0	0	0	0	0
24	125															
	64	9	8	5	8	3	8	6	0	6	8	5	1	3	1	0
	32	8	8	6	8	1	3	0	0	6	4	6	0	1	0	0
	16	9	8	5	9	1	6	0	0	5	2	3	0	0	0	0
	8	2	3	3	1	1	0	0	0	0	0	1	0	0	0	0
15	125															
	64	9	8	9	9	3	5	2	0	4	1	7	0	0	0	0
	32	8	8	8	8	0	4	0	0	2	0	6	0	0	0	0
	16	6	7	2	8	0	2	0	0	0	0	0	0	0	0	0
	8	2	6	2	4	0	0	0	0	0	0	0	0	0	0	0
7	125															
	64	9	9	9	8	3	3	2	0	6	2	5	0	0	0	0
	32	8	8	2	6	3	3	0	0	2	0	1	0	0	0	0
	16	6	5	0	4	3	0	0	0	0	0	0	0	0	0	0
	8	1	1	0	0	3	0	0	0	0	0	0	0	0	0	0
22	125															
	64	9	9	7	9	7	4	3	0	0	0	2	0	0	0	0
	32	9	8	6	8	2	0	0	0	0	0	0	0	0	0	0
	16	3	5	2	2	0	0	0	0	0	0	0	0	0	0	0
	8	1	5	2	5	0	0	0	0	0	0	0	0	0	0	0
23	125															
	64	9	8	4	8	5	9	2	0	4	1	2	1	0	0	0
	32	8	5	3	5	0	4	0	0	3	0	0	0	0	0	0
	16	6	5	3	2	0	2	0	0	3	0	0	0	0	0	0
	8	2	1	0	2	0	0	0	0	3	0	0	0	0	0	0
16	125															
	64	9	8	8	9	9	6	0	0	5	2	5	0	2	0	0
	32	8	8	5	6	2	3	0	0	5	2	2	0	5	0	0
	16	7	8	2	6	0	0	0	0	3	0	0	0	0	0	0
	8	4	6	2	1	X	0	0	0	3	0	0	0	0	0	0
6	125															
	64	9	8	8	9	2	2	2	0	5	0	3	0	0	0	0
	32	8	8	6	9	2	2	0	0	2	0	0	0	0	0	0
	16	6	6	0	2	0	0	0	0	2	0	0	0	0	0	0
	8	3	5	0	X	0	0	0	0	0	0	0	0	0	0	0

	PRE 3 WAT															
Test Cpd.	Rate g/ha	ABUTH	AMATA	AMBEL	CHEAL	IPOHE	STEME	XANST	ALOMY	DIGSA	ECHCG	SETVI	GLXMA	ORYSA	TRZAW	ZEAMX
17	125															
	64	9	9	8	8	2	6	7	0	7	3	6	X	3	0	0
	32	9	8	6	8	2	3	2	0	3	1	2	0	2	0	0
	16	6	7	2	8	0	3	0	0	3	0	0	0	0	0	0
	8	6	3	2	5	0	3	0	0	2	0	0	0	0	0	0
18	125															
	64	9	9	8	9	6	7	4	0	4	2	4	1	0	0	0
	32	9	8	6	9	0	6	0	0	2	0	0	0	0	0	0
	16	8	8	7	7	0	0	0	0	0	0	0	0	0	0	0
	8	4	6	4	9	0	0	0	0	0	0	0	0	0	0	0
1	125															
	64	9	9	9	9	6	8	8	2	8	8	9	3	0	0	1
	32	9	8	7	9	0	8	4	0	4	5	8	0	0	0	0
	16	8	9	6	9	0	5	3	0	0	2	3	0	0	0	0
	8	5	7	5	9	0	2	0	0	0	2	0	0	0	0	0
4	125															
	64	9	8	8	9	0	3	2	0	4	5	4	0	0	0	0
	32	7	8	6	9	0	0	0	0	2	2	0	0	0	0	0
	16	7	5	5	4	0	0	0	0	0	0	0	0	0	0	0
	8	2	5	5	2	0	0	0	0	0	0	0	0	0	0	0
2	125															
	64	9	9	9	9	7	9	8	4	8	7	7	0	3	0	2
	32	9	9	7	9	5	8	7	3	7	5	7	0	2	0	1
	16	8	8	7	7	0	7	2	1	1	3	2	0	0	0	0
	8	7	6	6	7	0	2	0	0	0	1	0	0	0	0	0
3	125															
	64	9	8	8	9	0	7	4	1	6	2	3	2	0	0	0
	32	7	8	6	9	0	6	2	0	4	1	1	1	0	0	0
	16	6	7	0	5	0	2	0	0	1	0	0	0	0	0	0
	8	1	4	0	2	0	0	0	0	0	0	0	0	0	0	0
	4															
19	125															
	64															
	32	8	8	2	8	8	2	2	0	0	1	0	0	1	0	0
	16															
	8	2	2	1	2	0	0	0	0	0	0	0	0	0	0	0
	4															

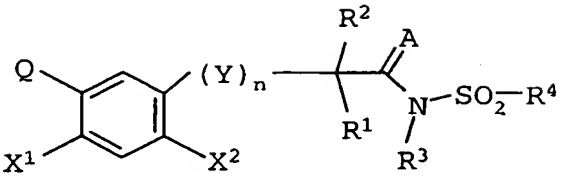
Throughout this application, various publications are referenced. The disclosures of these publications in their entireties are hereby incorporated by reference into this application for all purposes.

It will be apparent to those skilled in the art that various modifications and variations can be made in the present invention without departing from the scope or spirit of the invention. Other embodiments of the invention will be apparent to those skilled in the art from consideration of the specification and practice of the invention disclosed herein. It is intended that the specification and examples be considered as

exemplary only, with a true scope and spirit of the invention being indicated by the following claims.

We claim:

1. A compound of formula I:



(I)

wherein:

A is O or S;

X^1 and X^2 are each independently H or halogen;

n is 0 or 1

Y is O, NR, $S(O)_m$ or a group CHR';

m is 0, 1, or 2;

R is H, C_1-C_4 alkyl, C_1-C_4 alkoxyalkyl, or optionally substituted benzyl;

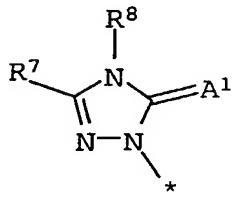
R' is hydrogen or R' and R^2 form a bond;

R^1 and R^2 are each independently H, C_1-C_6 alkyl, or halogen, or R^1 and R^2 taken together are $=CH_2$, or form a cyclopropyl ring with the carbon to which they are attached;

R^3 is H, CN, C_1-C_6 alkyl, C_1-C_6 alkoxyalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_3-C_6 alkynyl or optionally substituted benzyl;

R^4 is NR^5R^6, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_3-C_6 alkynyl, optionally substituted phenyl, optionally substituted 4 to 7 membered heterocyclyl or optionally substituted benzyl;

Q is selected from



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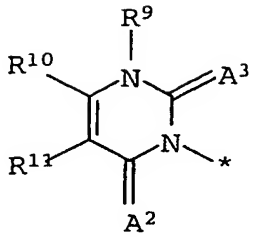

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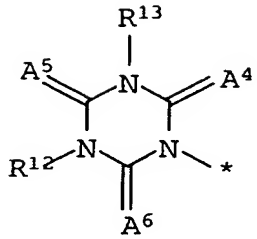
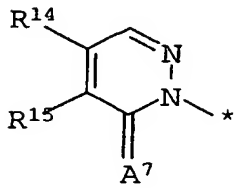


Q3



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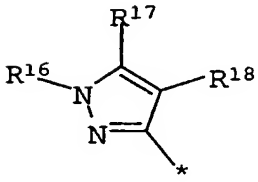

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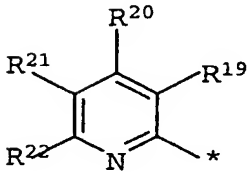

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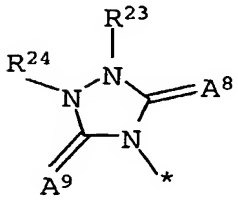

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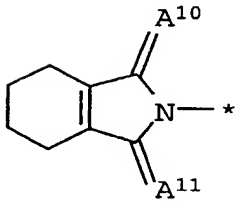

Q8

wherein the Q group is attached to the compound of formula I at *;

R^5 and R^6 are each independently H, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_3-C_{10} alkynyl, C_3-C_8 cyloalkyl, phenyl, benzyl or C_5-C_8 cycloalkenyl, where each of the aforementioned seven groups can be substituted with any combination of 1, 2, 3, 4 or 5 halogen atoms, 1, 2 or 3 C_1-C_6 alkoxy groups, 1 or 2 C_1-C_8 haloalkoxy groups, 1 or 2 cyano groups, 1 or 2 C_3-C_7 cycloalkyl groups, 1 or 2 two $C(O)R^{25}$ groups, 1 or 2 $C(O)OR^{26}$ groups, 1 or 2 $C(O)NR^{28}R^{29}$ groups, 1, 2 or 3 OR^{30} groups, 1, 2 or 3 SR^{31} groups, one optionally substituted four to ten membered monocyclic or fused bicyclic heterocycle, one or two optionally substituted phenyl groups or one or two optionally substituted benzyl groups, or

R^5 may be also a group $CONR^{5a}R^{6a}$ or $SO_2NR^{5a}R^{6a}$ wherein R^{5a} and R^{6a} are each independently H, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_3-C_{10} alkynyl, C_3-C_8 cyloalkyl, phenyl, benzyl or C_5-C_8 cycloalkenyl, where each of the

aforementioned seven groups can be substituted with any combination of 1, 2, 3, 4 or 5 halogen atoms, 1, 2 or 3 C_1-C_6 alkoxy groups, 1 or 2 C_1-C_8 haloalkoxy groups, 1 or 2 cyano groups, 1 or 2 C_3-C_7 cycloalkyl groups, 1 or 2 two $C(O)R^{25}$ groups, 1 or 2 $C(O)OR^{26}$ groups, 1 or 2 $C(O)NR^{28}R^{29}$ groups, 1, 2 or 3 OR^{30} groups, 1, 2 or 3 SR^{31} groups, one optionally substituted four to ten membered monocyclic or fused bicyclic heterocycle, one or two optionally substituted phenyl groups or one or two optionally substituted benzyl groups, or

R^5 and R^6 together with the atom to which they are attached form a three to seven membered heterocycle;

A^1, A^2, A^3, A^4, A^5, A^6, A^7, A^8, A^9, A^{10} and A^{11} are each independently O or S;

R^7, R^8, R^9, R^{12}, R^{13}, R^{16}, R^{17}, R^{23} and R^{24} are each independently H, CN, NH_2, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_1-C_6 haloalkoxy, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_3-C_6 alkynyl, benzyl, OR^{32}, C_1-C_3 cyanoalkyl, or R^7 and R^8 or R^{23} and R^{24} may be taken together with the atoms to which they are attached to represent a four- to seven membered ring, optionally interrupted by oxygen, sulfur or nitrogen and optionally substituted with one or more halogen or C_1-C_4 alkyl groups;

R^{10}, R^{11}, R^{14}, R^{15}, R^{19}, R^{20}, R^{21} and R^{22} are each independently H, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_3-C_6 alkynyl, OR^{33}, $S(O)_mR^{34}$, OSO_2R^{35}, $NR^{36}R^{37}$ or

R^{10} and R^{11} may be taken together with the atoms to which they are attached to represent a four to seven membered ring optionally substituted with one or more halogen or C_1-C_4 alkyl groups,

one of the radicals R^{19}, R^{20}, R^{21} or R^{22} may also be an optionally substituted phenyl group;

R^{18} is H, halogen, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_3-C_6 alkynyl, OR^{38} or SR^{39} or
R^{17} and R^{18} may be taken together with the atoms to which they are attached to represent a four to seven membered ring optionally substituted with one or more halogen or C_1-C_4 alkyl groups;

R^{25}, R^{26}, R^{28}, R^{29}, R^{30}, R^{31}, R^{32}, R^{33}, R^{34}, R^{35}, R^{36}, R^{37}, R^{38} and R^{39} are each independently H, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_3-C_6 alkynyl, optionally substituted phenyl or optionally substituted benzyl;

or optical isomers, salts or esters thereof.

2. The compound as claimed in claim 1, wherein Q is Q2, wherein
R^9 is NH_2, C_1-C_4 alkyl, C_3 or C_4 alkenyl or C_3 -C_4 alkynyl;
R^{10} is C_1-C_4 haloalkyl; and
R^{11} is H.

3. The compound as claimed in any of the preceding claims, wherein X^2 is chlorine.

4. The compound as claimed in any of the preceding claims, wherein R^4 is a group NR^5R^6.

5. The compound as claimed in any of the preceding claims, wherein R^4 is C_1-C_6 alkyl or C_1-C_6 haloalkyl.

6. The compound as claimed in claims 4 or 5, wherein R^3 is H, A is O, Y is O, n is 1, R^1 and R^2 are independently of each other hydrogen or alkyl, and Q is Q2.

7. The compound as claimed in claim 6, wherein A^2 and A^3 are each O.

8. The compound as claimed in claim 1, wherein:
A is O;
Y is O, NH or S;

n is 0 or 1;

R^1 and R^2 are each independently H, C_1-C_4 alkyl or halogen;

R^3 is H or C_1-C_4 alkyl;

R^4 is NR^5R^6, C_1-C_4 alkyl, C_1-C_4 haloalkyl, C_3-C_7 cycloalkyl, C_2-C_6 alkenyl, C_3-C_6 alkynyl, optionally substituted phenyl or optionally substituted benzyl;

Q is Q2;

R^5 and R^6 are each independently H, C_1-C_6 alkyl, C_2-C_6 alkenyl, C_3-C_6 alkynyl, C_3-C_7 cycloalkyl, phenyl, benzyl or C_3-C_7 cycloalkenyl;

A^2 and A^3 are each O;

R^9 is NH_2, C_1-C_4 alkyl, C_3 or C_4 alkenyl or C_3 -C_4 alkynyl;

R^{10} is C_1-C_4 haloalkyl; and

R^{11} is H.

7. The compound as claimed in claim 6, wherein R^3 is H, A is O, Y is O, n is 1, R^1 and R^2 are independently of each other hydrogen or C_1-C_4 alkyl.

8. The compound as claimed in claims 6 or 7, wherein R^4 is a group NR^5R^6.

9. The compound as claimed in claim 8, wherein R^5 is methyl.

10. The compound as claimed in claims 6 to 9 wherein both R^1 and R^2 are methyl.

11. The compound as claimed in claim 1, which is: Propane-2-sulfonic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide ; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide; Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide; Propane-2-sulfonic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-acetyl}-amide; Propane-2-sulfonic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-

~~trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-acetyl}-amide;~~ Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-acetyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-acetyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-acetyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-acetyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-propionyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-acetyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-acetyl}-amide; Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-acetyl}-amide; Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-propionyl}-amide; Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-acetyl}-amide; Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-acetyl}-amide; Propane-2-sulfonic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylamino]-acetyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylamino]-acetyl}-amide; Isopropyl-methyl-sulfa,ic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-propionyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-2-methyl-propionyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-propionyl}-amide; Dimethyl-sulfamic acid 2-chloro-4-fluoro-5-(5-methyl-6-oxo-4-trifluoromethyl-6H-pyridazin-1-yl)-benzoylamide; Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-

(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-propionyl}-amide; and Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylamino]-acetyl}-amide.

12. The compound as claimed in claim 1, which is: Propane-2-sulfonic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide ; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide; Methyl-phenyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-propionyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenylsulfanyl]-acetyl}-amide; Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-propionyl}-amide; Isopropyl-methyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenyl]-propionyl}-amide; Isopropyl-methyl-sulfa,ic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-propionyl}-amide; or Dimethyl-sulfamic acid {2-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-phenoxy]-propionyl}-amide.

13. An agricultural composition comprising at least one compound of the formula I or of an agriculturally utilizable salt of I, as claimed in any of the preceding claims, and at least one inert liquid and/or solid carrier and, if desired, at least one surface-active substance.

14. A method for controlling undesired vegetation, which comprises allowing a herbicidally active amount of at least one compound of the formula I or of an agriculturally utilizable salt of I, as claimed in any of claims 1 to 12, to act on plants, their habitat or on seed.

15. The method of claim 14, wherein the compound is formulated into a composition comprising, in addition to the compound of formula (I), a carrier.

16. The method of claim 15, wherein the formulation is a dusting powder or granule; dispersible powder, granule or grain; aqueous dispersion; suspension; paste; or emulsion.

17. The method of claim 14, wherein the compound is applied at a rate of about 25 g per hectare to about 600 g per hectare.

18. A method for the desiccation and/or defoliation of plants, which comprises allowing an effective amount of at least one compound of the formula I having desiccant and/or defoliant activity or of an agriculturally utilizable salt of I, as claimed in any of claims 1 to 12, to act on plants.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 02/10758

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D239/54 C07D213/61 C07D209/48 C07D213/20 A01N43/54
A01N43/38 A01N43/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07D A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, PAJ, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 92 06962 A (MONSANTO CO) 30 April 1992 (1992-04-30) cited in the application see general formula and page 5, line 3, pages 24-27 and compound no 238, page 85	1,3,5, 13-18 1-18
X Y	EP 0 443 059 A (NIHON NOHYAKU CO LTD) 28 August 1991 (1991-08-28) see general formula and compound 248, page 28 and page 120	1,2,5, 13-18 1-18

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
18 December 2002	30/12/2002

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Scruton-Evans, I

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 02/10758

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 90 02120 A (FMC CORP) 8 March 1990 (1990-03-08) see the whole application, general formula I on page 5, definitions of Q and examples 5, compound nos 32-38,25-27 and 72	1,3,5, 13-18 1-18
X Y	WO 86 02642 A (FMC CORP) 9 May 1986 (1986-05-09) cited in the application see formula III, page 5 and examples 6,11,14 and Table 5	1,3,5, 13-18 1-18
X Y	PATENT ABSTRACTS OF JAPAN vol. 010, no. 199 (C-359), 11 July 1986 (1986-07-11) & JP 61 040261 A (MITSUBISHI CHEM IND LTD), 26 February 1986 (1986-02-26) see compound 77 and whole document abstract	1,3,5, 13-18 1-18
X Y	PATENT ABSTRACTS OF JAPAN vol. 009, no. 309 (C-318), 5 December 1985 (1985-12-05) & JP 60 149571 A (MITSUBISHI KASEI KOGYO KK), 7 August 1985 (1985-08-07) see whole document, and examples 153 and 144 abstract	1,3,5, 13-18 1-18
X Y	EP 0 077 938 A (MITSUBISHI CHEM IND) 4 May 1983 (1983-05-04) see general formula II and examples 122-124,350-358.	1,3,5, 13-18 1-18
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International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Form PCT/ISA/210 (continuation of second sheet) (July 1992)

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Information on patent family members

International Application No
PCT/EP 02/10758

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